HP-UX Master Index HP 9000 Series 300 Computers



HP Part No. 98594-90090 Printed in USA September, 1989

> Edition 1 E0989

Legal Notices

The information in this document is subject to change without notice.

Hewlett-Packard makes no warranty of any kind with regard to this manual, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. Hewlett-Packard shall not be held liable for errors contained herein or direct, indirect, special, incidental or consequential damages in connection with the furnishing, performance, or use of this material.

Warranty. A copy of the specific warranty terms applicable to your Hewlett-Packard product and replacement parts can be obtained from your local Sales and Service Office.

© copyright 1983, 84, 85, 86, 87, 88, 89 Hewlett-Packard Company

This document contains information which is protected by copyright. All rights are reserved. Reproduction, adaptation, or translation without prior written permission is prohibited, except as allowed under the copyright laws.

Restricted Rights Legend. Use, duplication, or disclosure by the U.S. Government Department of Defense is subject to restrictions as set forth in paragraph (b)(3)(ii) of the Rights in Technical Data and Software clause in FAR 52.227-7013.

©copyright 1980, 84, 86 AT&T Technologies, Inc.

UNIX and System V are registered trademarks of AT&T in the USA and other countries.

©copyright 1979, 80, 83, 85-88 Regents of the University of California

This software is based in part on the Fourth Berkeley Software Distribution under license from the Regents of the University of California.

©copyright 1979 Regents of the University of Colorado, A Body Corporate

This document has been reproduced and modified with the permission of the regents of the University of Colorado, a body corporate.

- ©copyright 1986, 87, 88 Sun Microsystems, Inc.
- ©copyright 1986 Digital Equipment Corporation
- ©copyright 1985, 86 Massachusetts Institute of Technology

X Window System is a trademark of the Massachusetts Institute of Technology.

MS-DOS and Microsoft are U.S. registered trademarks of Microsoft Corporation.

OSF/Motif is a trademark of the Open Software Foundation, Inc. in the U.S. and other countries. Certification for conformance with OSF/Motif user environment pending.

Printing History

The manual printing date and part number indicate its current edition. The printing date will change when a new edition is printed. Minor changes may be made at reprint without changing the printing date. The manual part number will change when extensive changes are made.

Manual updates may be issued between editions to correct errors or document product changes. To ensure that you receive the updated or new editions, you should subscribe to the appropriate product support service. See your HP sales representative for details.

September 1989 ... Edition 1

How to Use This Index

The Purpose of This Index

HP-UX Master Index is designed to help you locate information about the HP-UX operating system. Your HP-UX system includes many manuals, and it can be difficult to decide which manual to use to accomplish a particular task or to learn about features of the system.

The Scope of This Index

This index covers most of the manuals shipped with your HP-UX system. Within this index, the manuals are referred to by keys which are acronyms of the manual titles. The following table lists the keys, the manuals to which they refer, and the manual part numbers.

Table 1-1. Keys, Titles, and Part Numbers of HP-UX Manuals

Key	Manual Title	Part Number
BGUX	A Beginner's Guide to HP-UX	98594-90006
BGUS	A Beginner's Guide to Using Shells	98694-90008
BGTE	A Beginner's Guide to Text Editing	98594-90010
SAC	HP-UX System Administration Concepts Manual	98594-90062
SAT	HP-UX System Administration Tasks: HP 9000 Series 300 Computers	98594-90061
AXE	Application Execution Environment User's Manual	98515-90004
INSP	Installing Peripherals: HP 9000 Series 300	97005-90002
TUX	Troubleshooting HP-UX	92453-90026
SSEC	HP-UX System Security	92453-90029
CPG	C Programmer's Guide: HP 9000 Series 300 Computers	98794-90031
PORT	HP-UX Portability Guide	98794-90047
NLS	Native Language Support: Concepts and Tutorials	97089-90058
BGSB	A Beginner's Guide to Using Starbase	98592-90046
SBRR	Starbase Radiosity and Ray Tracing Programmer's Manual	98885-90000
SBPX	Starbase Programming with X11	98592-90000
FAFM	Fast Alpha/Font Manager Programmer's Manual	98592-90092
BGXW	A Beginner's Guide to the X Window System	98594-90002
UXW	Using the X Window System	98794-90001
ICXW	Installing and Configuring the X WIndow System	98794-90004
W9KD	HP Windows/9000 Documentation	97069-90003

Finding Information about Actions, Objects and Features

You may use this index to search for HP-UX information in two ways:

- If you know the name of the action you wish to take (configuring, for example), look up the action in the index. Usually, it will be in gerund form (ending in -inq), but it may also be listed in the form of a noun (configuration).
- If you know the name of an *object* or *feature* about which you wish to learn more (directory, for example), look up that name in the index. Search for both its singular and plural forms.

When you find an entry, look at the end of the entry line. There you will find one or more pointers. A pointer consists of a key (acronym), a dash, and a number. The key indicates the manual you must consult. (For a list of manual keys, see Table 1-1.) The number indicates the chapter in which the information may be found. For example, the pointer "BGUX-3" indicates that the information you are seeking may be found in Chapter 3 of A Beginner's Guide to HP-UX.

Note



Some of the pointers in this index are in **bold type.** They point to chapters which contain information of primary importance. Check these pointers first.

Select the manual indicated by the key. You may identify the exact location of the material you want by doing either of the following things:

- Look up the entry in the manual's index. This will give you the exact page number.
- Turn to the table of contents, locate the chapter cited in the pointer, and scan the subheadings listed. This will give you the opportunity to check for other topics which may be associated with the task you wish to perform or the feature you wish to investigate.



Index

Special characters

```
!, UXW-5
#, UXW-4
#, AXE-3
$, AXE-5
$@, UXW-3
&, UXW-1-2, UXW-4
&, AXE-3
<, AXE-3
\, AXE-3
(, AXE-5
), AXE-5
*, AXE-3
., AXE-5
.., AXE-3
/, SSEC-8
/, AXE-5
>, AXE-3
>>, AXE-3
?, AXE-3, AXE-5
@, UXW-6
[], AXE-3
^, AXE-3
{, AXE-5
I, AXE-3
}, AXE-5
```

- **0** 0 (zero), AXE-5
- 1 13279B Color Monitor, INSP-8 16-bit character set, NLS-2
- 2 20GB/A Optical Disk Library System, INSP-6
 2225A ThinkJet Printer, INSP-7
 2227A QuietJet Plus Printer, INSP-7
 2227B QuietJet Plus Printer, INSP-7
 2228A QuietJet Printer, INSP-7
 2390-series. See Terminals
 2563B Printer, INSP-7
 2564B Printer, INSP-7
 2566B Printer, INSP-7
 2620-series. See Terminals
 2684 LaserJet 2000 Printer, INSP-7
 2686A/D LaserJet Printer, INSP-7
 2932A Printer, INSP-7
 2934A Printer, INSP-7
- 3 33440A LaserJet-II Printer, INSP-7 33447A LaserJet-IID Printer, INSP-7 35723A HP Touch Bezel, INSP-10 3630A PaintJet Printer, INSP-7 37212A 300/1200 Baud Modem, INSP-10
- 4 45911A Graphics Tablet, INSP-10
 46020/21 Keyboards, INSP-10
 46060A/B Mouse, INSP-10
 46080A Extension Module, INSP-10
 46081A Speaker Module, INSP-10
 46082A/B Remote Extension Modules, INSP-10
 46083A Rotary Control Knob, INSP-10
 46084A ID Module, INSP-10
 46085A Control Dials Module, INSP-10
 46086A Button Box, INSP-10
 46087/88A Digitizers, INSP-10
 46089A Cursor, INSP-10
 46094A Quadrature Port, INSP-10

4-Channel Multiplexer Interface. See 98642A

- 5 50961A SRM Interface, INSP-5 50961A SRM Interfaces, INSP-5
- 6 600/A HP-IB CD-ROM Drive, INSP-6 650/A Optical Disk Drive, INSP-6
- 7 7907A Disk Drive, INSP-6 7911/12/14 Disk/Tape Drives, INSP-6 7933/7935 Disk Drives, INSP-6 7936H/7937H Disk Drives, INSP-6 7941/42/45/46 Disk/Tape Drives, INSP-6 7957/58/59B Disk Drives, INSP-6 7957A/7958A Disk Drives, INSP-6 7957A/7958A Disk Drives, INSP-6 7961/62/63B Disk Drives, INSP-6 7974A Tape Drive, INSP-6 7978A Tape Drive, INSP-6 7979A/80A/80XC Tape Drives, INSP-6
- 9111A Graphics Tablet, INSP-8 9 9121/9122 Flexible Disk Drives, INSP-6 9125S/9127A Flexible Disk Drives, INSP-6 9133D/H/L Disk Drives, INSP-6 9134D/H/L Disk Drives, INSP-6 9144A Tape Drive, INSP-6 9153A/9154A Disk Drives, INSP-6 92205A/C Hayes Smartmodem 1200, INSP-10 92916A Bar Code Reader, INSP-10 98248A Floating-Point Accelerator, INSP-4 98248B Floating-Point Accelerator, INSP-4 98265A Small Computer Systems Interface (SCSI), INSP-5 98287A Graphics Display Station Interface, INSP-5 98546A Display Compatibility Interface, INSP-5 98548/49/50A High Resolution Video Boards, INSP-5 98556A 2D Graphics Accelerator, INSP-4 98562-66530 Human (System) Interface Board, INSP-5 98568A Backplane Expander, INSP-2 98570A Backplane Expander, INSP-3

98577A VMEbus Expander, INSP-2 98620B DMA Controller Card, INSP-4 98622A GPIO Interface, INSP-5 98624A HP-IB Interface, INSP-5 98625A Disk Interface, INSP-5 98625B Disk Interface, INSP-5 98626A RS-232C Interface, INSP-5 98627A Color Output Interface, INSP-5 98628A Datacomm, INSP-9 98628A Datacomm Interface, INSP-5, INSP-9 98629A SRM Interface, INSP-5 98635A Floating Point Math Card, INSP-4 98642A 4-Channel Multiplexer, INSP-9 98642A 4-Channel Multiplexer Interface, INSP-5, INSP-9 98643A Local Area Network (LAN) Interface, INSP-5 98644A Asynchronous Serial Interface, INSP-5 98644A RS-232C Serial Interface, INSP-9 98700 Graphics Display Station, INSP-8 98720A Graphics Display Station, INSP-8 98724A/98725A Local Graphics Bus Interface, INSP-5 98726A Interface Card, INSP-5 98730A Graphics Display Station, INSP-8 9895A Disk Drive, INSP-6

A a, AXE-5

abbreviate command, BGTE-6

A Beginner's Guide to Text Editing, BGUX-1 A Beginner's Guide to Using Shells, BGUX-1-2, BGUX-6 aborting a pop-up menu, W9KD-2 abort menu, disable abort when pointer moves outside menu boundary, W9KD-5 absolute and percentage graphics tablet coordinates, combining,

W9KD-5
absolute coordinates for graphics tablet scaling, W9KD-5
absolute path names, BGUX-4
ABSOLUTE_RES definition, SBRR-4
abs subroutine, PORT-5
accelerators, UXW-2, UXW-6
accept, SSEC-7
access control lists, SAC-8

access control lists (ACLs), BGUX-A, SSEC-4, SSEC-6, SSEC-8, SSEC-9 access check algorithm, SSEC-8 ACL patterns, SSEC-8 functionality, SSEC-8 long form, SSEC-8, SSEC-8, SSEC-8 notation, SSEC-8 null entries, SSEC-8 operator form, SSEC-8, SSEC-8 optional entries, SSEC-8 patterns, SSEC-8 short form, SSEC-8, SSEC-8, SSEC-8 syntax, SSEC-8 wildcards, SSEC-8 accessing directories, BGUX-4, BGUX-8 accessing files, BGUX-3, BGUX-8 accessing remote hosts, UXW-5 access permission, SAC-8 access to software, SSEC-6 accidentally destroying all windows, AXE-6 accountability, SSEC-6, SSEC-8 accounting on a system, SAT-2 account management, SAT-5 acct system call, PORT-5 ACL, SAC-8 ACLs in a network environment, SSEC-8 acltostr, SSEC-8 ACL uniqueness, SSEC-8 ACMD file set, AXE-5 ACTION environment variable, AXE-3 activated fonts for a window, listing via wlist(1), W9KD-4 activated fonts, listing for a window via wlist(1), W9KD-4 activating a fast alpha font, FAFM-2 activating a font, W9KD-4 activating a font manager font, FAFM-3 activating a new alternate font, W9KD-4 activating a new base font, W9KD-4 activating a pop-up menu, W9KD-2 activating a window, UXW-3 activating the LP spooler, SAT-7 active environment, AXE-3

```
active font, fast alpha, FAFM-2
active font, font manager, FAFM-3
active window, BGXW-2, UXW-2-3, UXW-6
adding
  a printer, SAT-7
  frame elements, UXW-6
  hosts with xhost, UXW-5
  modems, SAC-10
  terminals, SAC-10
  users, UXW-5
adding a disk drive, SAT-6, AXE-9
Adding an HP-UX cluster client, SAT-10
adding applications. See update
adding a user, SAT-5
adding disks, TUX-7
adding menu selections, BGXW-5
adding swap space, SAT-6
adding users, AXE-9
address, AXE-Glossary
addressing information, SAC-9
address of Starbase shared memory, W9KD-5
adm, SSEC-8
admin, SSEC-3
administering an HP-UX cluster, SAC-12
administrative domain, SSEC-5, SSEC-10
administrative events, SSEC-7
administrative run level, SAT-2
ADVANCE macro, NLS-4
advantages of using windows, W9KD-2
advisory locks, SAC-8
aging, password, SAC-4
AGP/DGL, SBPX-1, SBPX-4
AGRM, ICXW-2, ICXW-B
aid, SSEC-6
alias command, BGUS-2, BGUS-5
ALL_LIGHTS_ON definition, SBRR-6
alphabetizing using sort, BGUX-9
alternate and base fonts, replacing, W9KD-4
alternate boot path, TUX-5
alternate font, W9KD-4
alternate font, activating a new, W9KD-4
```

```
alternate font, default, W9KD-4
alternate font, default used in terminal windows, W9KD-5
alternate font, repaint alternate font characters with characters
    from new, W9KD-4
alternate font, selecting the, W9KD-4
alternate superblock, SAC-8
altherate font, default used in terminal windows, W9KD-5
Ambient light, SBRR-Glossary
american locale, NLS-6
analog clock, UXW-4
anchor point, W9KD-4
Anti-aliasing, SBRR-7, SBRR-Glossary
a.out version stamp, CPG-3
app-defaults, ICXW-2
appearance, customizing, UXW-5
appending, AXE-3
appending text, BGTE-2
appending to a file, BGUX-6
Application attributes, ICXW-3
Application Execution Environment (see AXE), AXE-1
applications
  CAD, UXW-2
  graphics, UXW-2
  process-intensive, UXW-2
  programs, UXW-2
  servers, UXW-2
  stopping, UXW-3
  windows, AXE-6
applications designer, NLS-2
ar, SSEC-8
arc, BGSB-9
Architecture
  HP Windows/9000, SBPX-2
  Starbase-on-X Driver, SBPX-2
  X11 and Graphics, SBPX-2
  X Client/Server, SBPX-2
  X Window System, SBPX-2
Architecture-specific directory, SAT-10
  creating, SAT-10
architecture, window system, W9KD-4
archive
```

```
backup, AXE-Glossary
 files, AXE-4
archive backup, AXE-8
archiving
 files to tape using cpio, BGUX-9
 retrieving files from tape using cpio, BGUX-9
archiving files, TUX-7
archiving programs, AXE-9
arc routine, SBRR-4
arcs, BGSB-9
  diagram of parameters, BGSB-9
Area light, SBRR-Glossary
Area lights, SBRR-1, SBRR-4
arguments, command, BGUX-5, BGUS-2
ARPA hostname, SAT-10
ARPA Services, SAC-11
arrays, BGUS-2, CPG-2
arrow, AXE-6
arrows in a window's border, W9KD-3
arrows in a window's border, disabling, W9KD-5
arrows in a window's border, reversing direction of scroll,
    W9KD-5
asa, PORT-2
ASCII, NLS-2
ASCII text files, choosing an editor, UXW-5
asctime library routine, NLS-4
asm_initproc, PORT-4
asm_wrapup, PORT-4
assignment statement, BGUS-3
assumptions, AXE-1
a_stamp (version stamp) field in a.out, CPG-3
Asynchronous Serial Interface. See 98644A
at, SSEC-2, SSEC-8
  at.allow, SSEC-8
  at.deny, SSEC-8
at command, BGUX-9
atof library routine, NLS-4
attaching a shell to a dead window, W9KD-4
attacks, SSEC-9
attended mode, SAC-2, SAT-4, AXE-7
attended mode (boot), TUX-5
```

attributes, UXW-7 Attributes, ICXW-3 attributes of a window, listing via wlist(1), W9KD-4 attr parameter, SBRR-4 audevent, SSEC-3, SSEC-7 audisp, SSEC-3, SSEC-7 auditable events, SSEC-7 audit data retention, SSEC-7 AUDIT fileset, SSEC-2 Audit File Switch (AFS) size, SSEC-2, SSEC-7 audit flag, SSEC-8 audit ID, SAC-5, SSEC-2, SSEC-7 audit ID (aid), SSEC-6, SSEC-8 auditing, BGUX-8, SSEC-6, SSEC-7, SSEC-9 archiving audit files, SSEC-7 auditable actions, SSEC-7 audit file, SSEC-2 audit log file, SSEC-3 audit log files, SSEC-7 audit log parameters, SSEC-2 audit monitor, SSEC-2-3, SSEC-7 auxiliary log file, SSEC-2-3, SSEC-7 commands, SSEC-3 diskless environment, SSEC-7 disk space, SSEC-3, SSEC-7 events, SSEC-2-3, SSEC-7 file maintenance, SSEC-7 guidelines, SSEC-7 log file capacity, SSEC-2 log file pathname, SSEC-2 log file switch size, SSEC-2 parameters, SSEC-2 performance, SSEC-7 primary log file, SSEC-2-3, SSEC-7 real-time environment, SSEC-7 records, SSEC-3 setting parameters, SSEC-2 streamling log entries, SSEC-7 system calls, SSEC-2-3, SSEC-7 tasks, SSEC-3 terminals, SSEC-3

time intervals, SSEC-3 user-defined events, SSEC-7 users, SSEC-2 viewing audit logs, SSEC-3 warning messages, SSEC-7 auditing a system, SAT-2 auditing events, SSEC-7 auditing records, SSEC-7 auditing tasks, SSEC-3 auditing users, SSEC-7 audit log data, reducing amount, SSEC-7 audit log parameters, SSEC-3 audit logs, defining, SSEC-2 audit log size and location, SSEC-2 audit logs, viewing, SSEC-3 audit monitor, SSEC-3 audit record, SSEC-3, SSEC-7 audit schedule, SSEC-8 audomon, SSEC-3 audswitch, SSEC-7 audsys, SSEC-3, SSEC-7 audusr, SSEC-3, SSEC-7 authentication, SSEC-6 authorization, SSEC-6 autoboot, SAC-2, TUX-5, AXE-7 autochanger cartridge tape drive, AXE-8 autocreation, SAC-12, TUX-4 autodestroyable, W9KD-4 autodestroyable, turning off, W9KD-4 autologout shell variable, BGUS-5 automatically destroy dead window when new window created, W9KD-4 automatically destroying a window when device interface closed, W9KD-4 automatically destroying windows on shell termination, W9KD-4 automatically starting the window system on login, W9KD-3 automatic backups, SAT-11 automatic backup using fbackup, SAT-11 automatic restore using frestore, SAT-11 automatic startup, BGXW-6

autosearch, SAC-2 Autost file, AXE-3, AXE-Glossary auxiliary log file, SSEC-2-3, SSEC-7 available colors, BGXW-A fonts, BGXW-D available memory, SAC-7 awk, SSEC-5 AXE, ICXW-2 definition, AXE-1, AXE-Glossary folder structure, AXE-Glossary superuser definition, AXE-8 b, AXE-5 B, AXE-5 Back-facing surfaces, SBRR-4 background border color, W9KD-4 background border color, default, W9KD-5 background border color, setting via wborder(1), W9KD-4 background_color_index, BGSB-8 background color of desk top, changing, W9KD-5 background_color routine, SBRR-4 background operation, BGUS-3 backgroundplanes, of the fast alpha fainfo structure, FAFM-2 background process, BGUS-3 background processes, AXE-6 background process group, SAC-5 background processing, UXW-1-2, UXW-4 background, putting foreground jobs into, BGUS-3 Backing store, SBPX-3-4, SBPX-Glossary backing up files to tape using cpio, BGUX-9 retrieving files from tape using cpio, BGUX-9 backing up files, AXE-4, AXE-Glossary backing up the system archive backup, AXE-8 backing up selected files, AXE-8 backup device file, AXE-8 definition, AXE-Glossary description, AXE-8

automating processes, SAT-6

В

```
error message, AXE-8
 file restoration, AXE-8
 incremental backup, AXE-8
 media, AXE-8
 scripts, AXE-8
 system clock considerations, AXE-8
  times, AXE-8
Backplane Expander, INSP-3. See also 98568A Backplane
    Expander
backslash, AXE-3
Back space, AXE-2
backup, SSEC-2, SSEC-6, SSEC-9
  alternatives for media, SAT-11
  automating, SSEC-9
  backing up files and file systems, SAT-11
 scheduling, SSEC-9
 selecting commands and scripts, SAT-11
  using dd, SAT-11
  using tar, SAT-11
backup and restore
  automatic, SAT-11
  automating backup, SAT-11
  backing up to cartridge tape, SAT-11
  beginning of manual procedures, SAT-11
  deciding what to backup, SAT-11
 optical disks, SAT-11
  restoring files after a crash, SAT-11
 secured system, SAT-11
 system size and media, SAT-11
  the backup scripts, SAT-11
 using a cartridge tape, SAT-11
 using a magnetic tape, SAT-11
 using a tape, SAT-11
  using fbackup and frecover, SAT-11
 using find, tcio, and cpio, SAT-11
  using the backup script, SAT-11
backup and restore, planning them, SAT-11
backup copies, UXW-5
backup kernel, SAC-8, AXE-7
backup kernel in an HP-UX cluster, SAC-12
backup media, SSEC-9
```

cartridge tape, SSEC-9 reel tape, SSEC-9 backups, TUX-7, TUX-9 importance of, TUX-1, TUX-9 utilities, TUX-7 backup script, AXE-8 backup scripts, SAT-11 backward scrolling, BGTE-3 backward searches, BGTE-5 backwards search, AXE-5 bank_switch routine, SBRR-7 BANNERFONT, W9KD-5 Bar Code Reader. See 92916A base and alternate default fonts, returning to, W9KD-4 base and alternate fonts, listing for a window via wlist(1), W9KD-4 base and alternate fonts, replacing, W9KD-4 base font, W9KD-4 base font, activating a new, W9KD-4 base font, default, W9KD-4 base font, default used in terminal windows, W9KD-5 base font, repaint base font characters with characters from a new, W9KD-4 base font, replacing all fonts with one, W9KD-4 base font, selecting, W9KD-4 baseline height of font, FAFM-3 basics, AXE-2 basic Starbase program, BGSB-2 batch, SSEC-2 baud rate, SAC-4, SAC-10 bdftosnf, UXW-4, UXW-7 beep, disabling when interactive user errors occur, W9KD-5 beginner's guides, UXW-1 Beginner's Guide to HP-UX, SSEC-1, SSEC-8 behavior, customizing, UXW-5 Berkeley sockets, SAC-11 BFS file system, SAC-8 bf_surf_global_model routine, SBRR-3 bf_surf_light_model routine, SBRR-3 bg command, BGUS-3 /bin, SAC-4

bin, SSEC-8 binaries, SSEC-8 /bin/csh, W9KD-4 /bin/csh program, BGUS-3 bind. SSEC-7 bindings, default, UXW-6 /bin directory, BGUS-4 /bin/ksh program, BGUS-3 /bin/sh, W9KD-4 /bin/sh program, BGUS-3 /bin/write, SAT-2 Bit driver, SBPX-Glossary bitmap, UXW-5 bitmapped device, UXW-2 bit-mapped display, SAC-2, AXE-7 bitmaps, UXW-4 bitmap_to_file routine, SBRR-7 bit-per-pixel, W9KD-4 bits per inch (bpi), SAC-10 black-and-white colors, W9KD-4 blclose subroutine, PORT-5 Bleeding Color, SBRR-Glossary blget subroutine, PORT-5 block, AXE-Glossary block device, SAC-9 file, SAC-8 block device file, AXE-Glossary block, duplicate, TUX-B block major number, SAC-9 block mode, AXE-Glossary block oriented cursor movement, AXE-5 block special files, SSEC-5 blread subroutine, PORT-5 blset subroutine, PORT-5 bold, AXE-1 boldness, of font manager escapecodes structure, FAFM-3 boot boot area on disk, SAC-8 boot entry in inittab, SAC-2 booting the system, SAC-2

```
boot ROM, SAC-2
  bootwait entry in inittab, SAC-2
  fsck, SAC-2
  loading the operating system, SAC-2
  manual, SAC-2
  path, SAC-2
  primary path, SAC-2
  processes, SAC-2
boot area, AXE-Glossary
boot errors, TUX-5
boot processes, SAC-6
boot program, TUX-5
 search sequence, TUX-5
boot ROM, SAC-2
  attended mode, SAC-2, AXE-7
  autoboot, AXE-7
  definition, AXE-Glossary
  general description, AXE-7
  input device, AXE-7
  loading AXE, AXE-7
  loading HP-UX, SAC-2
  output device, AXE-7
  search sequence, SAC-2, AXE-7
  system console, SAC-2, AXE-7
  unattended mode, SAC-2, AXE-7
boot-up
  attended mode, TUX-5
  autoboot, TUX-5
  following system panic, TUX-9
  from LAN, TUX-5
  kernel selection, TUX-5
  override autoboot, TUX-5
  unattended mode, TUX-5
  wrong kernel, TUX-5
bootup
  booting a new operating system, AXE-7
  booting the system, AXE-7
  definition, AXE-Glossary
  fsck, AXE-7
  loading the operating system, AXE-7
  operating system selection menu, AXE-7
```

problems, AXE-7 boot-up Problems, TUX-5 border, W9KD-2 border area, AXE-6 border background color, default, W9KD-5 border colors, W9KD-4 border, disabling pop-up menus over, W9KD-5 border foreground color, default, W9KD-5 border, normal, W9KD-2 border, null, W9KD-2 border of a window, controlling via wborder (1), W9KD-4 border, thin, W9KD-2 bottom a window via wdisp(1), W9KD-4 bottoming a window, W9KD-3 bottom menu selection, UXW-3 bottom of stack, AXE-6 Bottom pop-up menu operation, W9KD-3 bottom window, W9KD-4 bottom window on create, W9KD-4 Bourne shell, UXW-5, W9KD-4, AXE-3 Bourne Shell, BGUX-2-3, BGUX-6, BGUS-2-5, SAC-4 Break, W9KD-2 (Break), BGUX-2, AXE-2 bringing a window to the top, W9KD-3 bringing a window to the top via wdisp(1), W9KD-4 BSD IPC, SAC-11 Buffer Item, SBRR-Glossary buffer cache, SAC-8 buffer, cut, UXW-4 buffering, UXW-9 buffers, named, BGTE-4 buildlang, NLS-5 example, NLS-6 buildlang -d, NLS-7 buildlang, using, NLS-6 built-in RS-232C interface, INSP-9 bus address, AXE-Glossary Button Box. See 46086A buttons bindings, UXW-6

click timing, UXW-6
locations, UXW-1, UXW-4
maximize, UXW-3
minimize, UXW-3
window menu, UXW-3
byte count, SSEC-5
Byte driver, SBPX-Glossary
byte-per-pixel, W9KD-4
"byte redefinition", NLS-4
bytes per inode, AXE-Glossary
byte_status library routine, NLS-4
BYTE_STATUS macro, NLS-4

C C, 7.0 implementation dependencies, CPG-4 cache, font manger, FAFM-3 cache for fast alpha fonts, FAFM-2 cache, pty, W9KD-A CAD applications, UXW-2 cal command, BGUX-2 calculating disk space for updates, AXE-9 C among HP-UX versions assignments and functions, PORT-4 bit fields, PORT-4 calls to FORTRAN, PORT-4 calls to other languages, PORT-4 calls to Pascal, PORT-4 char data type, PORT-4 code/data size limitations, PORT-4 compiler command options, PORT-4 conversions, PORT-4 data type alignments, PORT-4 data types, PORT-4 data type sizes, PORT-4 division by zero, PORT-4 expression evaluation, PORT-4 identifiers, PORT-4 integer overflow, PORT-4 memory organization on HP-UX, PORT-4 null pointers, PORT-4 overview, PORT-4 predefined symbols, PORT-4

```
register data type, PORT-4
 shift operators, PORT-4
 size of operator, PORT-4
 structure, PORT-4
  $TMPDIR, PORT-4
  variable initialization, PORT-4
canceling a print job, BGUX-9
capabilities, of fast alpha fainfo structure, FAFM-2
capital letters, UXW-1
Caps, AXE-2
caps key, BGTE-1
capturing windows, UXW-8
carriage returns, BGTE-3
cartridge tape
  for backups, AXE-Glossary
cartridge tape, description, SAC-10
cartridge tape drive
  autochanger, AXE-8
  for backups, AXE-8
  setting up, AXE-9
case, NLS-2
case sensitivity, UXW-1
cat, SSEC-5
cat, AXE-3
catclose command, NLS-4
cat command, BGUX-3, BGUX-6, BGUS-5
catgetmsg command, NLS-4
catgets, NLS-4, NLS-7
  default message, NLS-4
catgets command, NLS-4
cathode ray tube, UXW-2
catman, SAT-2
catopen, NLS-4, NLS-7
catopen command, NLS-4
cd command, BGUS-4
CDF, SAT-10
  architecture-specific, SAT-10
  creating, SAC-12
  description, SAC-12
  examining, SAC-12
  examples, SAC-12
```

```
finding, SAC-12
  implementation, SAC-12
  mixing context attributes, SAC-12
  removing, SAC-12
  structure, SAC-12
  system CDFs, SAC-12
  using, SAC-12
CDF autocreation, TUX-4
CDF indicator, TUX-4
CDF Mechanism, TUX-4
CDF Mix-ups, TUX-4
CDPATH environment variable, BGUS-5
CD-ROM Drives. See 600/A
cell size, font, W9KD-4
centralized security responsibilities, SSEC-6
chacl, SSEC-4, SSEC-8
chacl command, BGUX-A
change directory (cd), BGTE-6
change mode, BGSB-2
change word command, BGTE-3
changing. See modifying
  client location, BGXW-4
  colors, BGXW-3
  fonts, BGXW-D
  passwords, AXE-2
  run level, SAT-4
  run-levels, AXE-7
  size of window, AXE-6
  text, AXE-5
  the environment, AXE-3
changing access to files, BGUX-8
changing an icon to a window, interactively, W9KD-3
changing a window's label, W9KD-4
changing a window's size via wsize(1), W9KD-4
changing a window to an icon, interactively, W9KD-3
changing from iconic to normal representation via wdisp(1),
    W9KD-4
changing from normal to iconic representation via wdisp(1),
    W9KD-4
changing group membership, SAT-5
changing text, BGTE-3
```

```
changing the desk top background color, W9KD-5
changing the desk top dither pattern, W9KD-5
changing the desk top foreground color, W9KD-5
changing the fast alpha environment, FAFM-2
changing the location and/or size of shared memory, W9KD-A
changing the select button, W9KD-5
changing who has access to directories, BGUX-8
changing your mailbox, BGUX-7
changing your password, BGUX-2
chapter descriptions, SAT-1
char, CPG-2
character
  16-bit, NLS-2
  8-bit, NLS-2
  clustered, NLS-2
  comparison, NLS-2
  expanded, NLS-2
  identify traits, NLS-4
  multi-byte, NLS-2
character clipping, font manager, FAFM-3
character device, SAC-9
  file, SAC-8
character device file, AXE-Glossary
character enhancements, fast alpha, FAFM-2
character handling, NLS-2
character_height, BGSB-7
character keys, AXE-2
character major number, SAC-9
character pointer manipulation, NLS-4
character sets
  ASCII, NLS-5
  European, NLS-5
  KANA8, NLS-5
  Katakana, NLS-5
  multi-byte, NLS-5
  non-HP, NLS-5
  peripherals for, NLS-5
  Roman8, NLS-5
  single-byte, NLS-5
Character Sets, SBPX-5
character set (see also 7-bit, 8-bit, 16-bit)
```

```
ideographic, NLS-2
character special files, SSEC-5
character special files in $WMDIR directory, warning, W9KD-4
characters per inch (cpi), SAC-10
character_width, BGSB-7
CHARADV macro, NLS-4
CHARAT macro, NLS-4
charging fees, SAC-13
"Chartres Cathedral" image (radiosity), SBRR-2
chatr, SAC-7
chdir, SSEC-7
check blocks and sizes, TUX-B
check connectivity, TUX-B
check cylinder groups, TUX-B
checking
  file system consistency, SAT-6
checking filename length, SAT-6
checking hosts with xhost, UXW-5
checklist, as means to mount file systems, SAT-6
check reference counts, TUX-B
chfn, SSEC-7
chgrp, SSEC-8
child directory, BGUX-4
Chinese collating sequence, NLS-2
chmod, SSEC-4, SSEC-7
chmod, BGSB-2
  description, AXE-4
  example, AXE-3
  syntax, AXE-3
chmod command, BGUX-8, BGUX-A, BGUS-4
choosing screen mode, UXW-7
choosing window, AXE-6
chown, SSEC-7
CHOWN, SAT-5
chownacl, SSEC-8
chroot, SSEC-7
chsh, SSEC-7
chsh(1), W9KD-4
chsh command, BGUS-3
clean byte, SAC-2
clear area, AXE-6
```

```
clearbeforewrite, of fast alpha fainfo structure, FAFM-2
clearbeforewrite, of the fast alpha fainfo structure, FAFM-2
clearbeforewrite, relation to font manager writes, FAFM-3
clear command, BGUX-8, BGUS-4
Clear.c program, FAFM-2
Clear display, AXE-2
clearing a fast alpha rectangle, FAFM-2
clearing graphics window retained rasters on window create,
    W9KD-5
Clear line , AXE-2
clear_view_surface, BGSB-8
clear_view_surface routine, SBRR-4
clicking, UXW-3
clicking a button, W9KD-2
clicking the mouse, AXE-6
client, UXW-3, TUX-4
Client, ICXW-B, SBPX-2, SBPX-Glossary
client options, BGXW-4
clients, UXW-2, UXW-4
  appearance, UXW-6
  changing, UXW-5
  colors, UXW-4
  configuration, UXW-4
  controlling, BGXW-4
  customizing, BGXW-4
  defined, UXW-2, UXW-4
  displaying, UXW-4
  graphics functions, UXW-4
  initialization, UXW-4
  matting, UXW-6
  options, UXW-4
  positioning, BGXW-4, UXW-4
  remote, UXW-4
  root window, UXW-3
  starting, UXW-3
  stopping, UXW-3
  viewable services, UXW-4
  window management, UXW-4, UXW-6
Clients, ICXW-B
client/server model, UXW-2
clip limits, font manager, FAFM-3
```

```
clip limits, setting for font manager, FAFM-3
clipping, W9KD-A
clipping disabled, font manager, FAFM-3
clipping enabled, font manager, FAFM-3
clipping, font manager, FAFM-3
clip_rectangle routine, SBRR-7
C locale as default, NLS-7
C locale messages, NLS-6
clock, UXW-4
clock subroutine, PORT-5
CLOCKWISE definition, SBRR-4
close, SSEC-7
close a folder, AXE-3
closelog subroutine, PORT-5
close menu selection, UXW-3
closing windows, UXW-3
cluster, SSEC-7
  autocreation, TUX-4
  CD-ROM compatibility, TUX-4
  client, TUX-4
  cnodes, TUX-4
  context, TUX-4
  file system problems, TUX-6
  getcontext command, TUX-4
  hidden directories, TUX-4
  kernel parameters, TUX-4
  Link Level Address, TUX-4
  log files, TUX-4
  makecdf, TUX-4
  NFS compatibility, TUX-4
  rbootd, TUX-4
  remote boot, TUX-4
  server, TUX-4
  showedf, TUX-4
  swap space, TUX-4
Cluster
  context, TUX-4
  creating, SAT-10
  heterogeneous, SAT-10
  homogeneous, SAT-10
  mixed, SAT-10
```

```
restrictions, SAT-10
Cluster Client, SAT-10
Cluster client, adding, SAT-10
Cluster clients
  removing, renaming, SAT-10
Cluster clients, removing, SAT-10
cluster, diskless, UXW-2
clustered characters, NLS-2
Cluster node, SAT-10
cluster node hostname, SAT-10
cluster node name, SAT-10
cluster server, SAT-10
cluster server process (see HP-UX cluster - CSP), SAT-10
CMAP_FULL definition, SBRR-4, SBRR-7
CMAP_MONOTONIC definition, SBRR-4, SBRR-7
Cnode, SAT-10
cnodes, TUX-4
code and data space, computing the size of, W9KD-A
code and data space, relation to shared memory, W9KD-A
code segment, SAC-7
.codeset, NLS-5
codeset
  conversion, NLS-7
  multi-byte, NLS-4
codesets
  multi-byte, programming with, NLS-4
collating sequence, NLS-2
colon commands, BGTE-3
color
  background, BGSB-8
  fill color, BGSB-8
  index chart, BGSB-8
  perimeter, BGSB-8
Color, ICXW-3
colorable elements, UXW-4
  determining, UXW-5
Color bleeding, SBRR-1, SBRR-Glossary
color database, creating, UXW-7
color environment variables, W9KD-5
color images, printing, UXW-8
coloring
```

```
automatically started windows, UXW-5
  clock elements, UXW-5
  frame elements, UXW-6
  load histogram elements, UXW-5
  matte elements, UXW-6
  scrollbars, UXW-4
  single instance, UXW-5
  softkeys, UXW-5
  terminal window elements, UXW-5
  windows started from menus, UXW-5
coloring register allocation, CPG-3
Color map, SBPX-3
  Control, SBPX-4
  Hardware, SBPX-4
  Policy, SBPX-Glossary
  Software, SBPX-4
color map, default, W9KD-4
colormap focus policies, UXW-6
color map, interaction between Starbase and Windows/9000,
    W9KD-A
colormode, of fast all pa fainfo structure, FAFM-2
colormode, of fast alpha fainfo structure, FAFM-2
colormode, of the fast alpha fainfo structure, FAFM-2
Color Monitor. See 13279B
Color Output Interface. See 98627A
color, reversal, UXW-8
colors, UXW-4
  available, BGXW-A, UXW-5
  changing, BGXW-3, BGXW-A
  changing client colors, UXW-5
  customizing, UXW-5
  default, BGXW-A
  names, UXW-4
  options, UXW-4
  placement, UXW-5
  rgb specifications, UXW-4
  setting, UXW-4
  using hexadecimal values, UXW-4
colors, border, W9KD-4
color, setting for fast alpha fonts, FAFM-2
colors, font manager, FAFM-3
```

```
color with font manager, FAFM-3
COLUMNS environment variable, UXW-6
combined mode, UXW-7
Combined mode, ICXW-3, SBPX-3-4, SBPX-Glossary
combining absolute and percentage graphics tablet coordinates,
    W9KD-5
command
 fsck, SAC-8
 fsdb, SAC-8
 1ssf, SAC-9
 mkdir. SAT-5
 shutdown, SAT-4
 swapon, SAC-7
command alias, BGUS-2, BGUS-5
command area, AXE-3
command arguments, BGUS-2
command history, BGUS-2-3, BGUS-5
command interpreter, BGUS-2
command line, BGUX-6, BGUS-2-3, UXW-2
  definition, AXE-2
  editing, AXE-3
 memory, AXE-3
  PAM, AXE-3
  pattern matching, AXE-3
  quoting, AXE-3
  using parameters, AXE-3
  using relative path names, AXE-3
Command line, ICXW-3
command-line editing, BGUS-2
command-line prompt, BGXW-2
command line prompt, BGUX-2
command mode, BGTE-2
command mode in vi, AXE-5
command panel, bitmap, UXW-5
commands
  accept, TUX-2
  adb, TUX-7
  alias, BGUS-2, BGUS-5
  arguments, BGUX-5
  at, BGUX-9
  automating them, SAT-6
```

```
backup, SAT-11
bdf, TUX-7
bg, BGUS-3
cal, BGUX-2
cancel, TUX-2
cat, BGUX-3, BGUX-6, BGUS-5, TUX-2-3, TUX-6, TUX-8
ccck, TUX-4
cd, BGUS-4
cdb, TUX-7
chacl, BGUX-A
chmod, BGUX-8, BGUX-A, BGUS-4
chsh, BGUS-3
clear, BGUX-8, BGUS-4
concepts, BGUX-5
cp, BGUX-3-4, BGUS-5, TUX-7
cpio, BGUX-9, TUX-7
cpio, find, and tcio, SAT-11
crontab, BGUX-9
cu, TUX-3
cut, BGUS-5
date, BGUX-2, BGUX-6, BGUS-4
dd, TUX-7
dd, SAT-11
df, TUX-7
dirs, BGUS-5
disable, TUX-2
du, BGUS-3
dump, TUX-7
echo, BGUS-3
elm, BGUX-7
enable, TUX-2
executing, AXE-3
exit, BGUX-2, BGUS-3-4, BGXW-2
export, BGUS-4
expr, BGUS-2
fbackup, TUX-7
fbackup, SAT-11
fbackup and frecover, SAT-11
fg, BGUS-3
file, AXE-3
find, BGUX-9, TUX-4
```

frecover, TUX-7 frecover, SAT-11 fsck, TUX-6, TUX-9, TUX-B, AXE-8 ftio, SAT-11 fuser, TUX-6 getcontext, TUX-4 getty, TUX-8 grep, BGUS-3, BGUS-5 history, BGUS-5 hostname, BGUX-7, BGUS-4 init, TUX-4-5, TUX-8 jobs, BGUS-3 kermit, TUX-3 kill, BGUS-3, TUX-6, TUX-8 line-editing, BGUS-3 11, BGUX-3-4, BGUX-8, BGUX-A, TUX-2-4, TUX-8 11 -d, BGUX-4 ln, TUX-7 1p, BGUX-3, BGUX-9, TUX-2 lpadmin, TUX-2, AXE-9 lpmove, TUX-2, AXE-9 1psched, TUX-2, AXE-9 lpshut, TUX-2, TUX-6 1pstat, BGUX-9, TUX-2 lpstat, SAT-7 1s, BGUX-3, BGUS-2-4, TUX-4 1s -a, BGUX-3 lsacl, BGUX-A lsf, BGUX-4 lssf, TUX-2-3, TUX-8 mail, BGUS-5 makecdf, TUX-4 man, BGUX-5 mesg, BGUS-5 mkdir, BGUX-4 mkfs, TUX-7 more, BGUX-3, BGUS-5, TUX-6 mount, TUX-6 mv, BGUX-3 netdistd, SAT-3. See also netdist newfs, TUX-7

```
news, BGUS-5
nice, BGUS-3
nohup, BGUS-3
options, BGUX-5
passwd, BGUX-2
pipes, AXE-3
ps, BGUS-3, TUX-3, TUX-8
pwd, BGUX-4
rbootd, TUX-4
reboot, TUX-9
reboot, -n option, TUX-9
recalling in the C Shell, BGUS-3
recalling in the Korn Shell, BGUS-3
re-executing in the C Shell, BGUS-3
re-executing in the Korn Shell, BGUS-3
reject, TUX-2
restore, TUX-7
rlp, TUX-2
rm, BGUX-3, BGUS-5, TUX-7
rmdir, BGUX-4
running at regular intervals, BGUX-9
running several commands on the same command line,
    BGUX-5
script, TUX-1
set, BGUS-4
setenv, BGUS-4
setprivgrp, SAT-5
set (shell command), TUX-8
showcdf, TUX-4
sort, BGUX-6, BGUX-9
strings, TUX-6
stty, BGUS-5, TUX-3, TUX-8
sync, BGUS-4
syntax, BGUX-5
tabs, BGUS-5
tar, TUX-7
tar, SAT-11
tcio, BGUX-9, TUX-7
tee, BGUX-6
telinit, TUX-8
those used for backup, SAT-11
```

```
trap, BGUS-4
 truncate, TUX-6
  tset, BGUS-4-5, AXE-9
 typing, BGUX-2
 umask, BGUX-8, BGUS-5
 umount, TUX-6
 update, SAT-3. See also update
  updist, SAT-3. See also update
  uucheck, TUX-3
 uucico, TUX-3
 uucp, TUX-3
 uulog, TUX-3
 uuls, TUX-3
  uustat, TUX-3
  uux, TUX-3
  wc, BGUX-6, BGUS-5
  what, TUX-6
  who, BGUX-6, BGUS-5, TUX-8
  whoami, BGUX-2, BGUX-6, BGUS-4
  x11start, BGXW-2
commands, general overview, W9KD-4
commands, lpadmin, SAT-7
commands, passing to new terminal (term0) windows, W9KD-4
commands, previous
  editing in the Korn Shell, BGUS-3
  modifying in the C Shell, BGUS-3
command substitution, BGUS-4
comments, BGUS-4
common subexpression elimination, CPG-3
communication protocol, SAC-2, AXE-7
communications
  mailx and mail, SAT-2
  using news, SAT-2
  using write, SAT-2
  uucp, SAT-2
  wall and cwall, SAT-2
communications, using it, SAT-2
compact, SSEC-8
comparing characters, NLS-2
comparing strings, NLS-2
compatibility with pre-6.5 object files, CPG-3
```

```
compilation, BGSB-2
compiler directives, PORT-1, CPG-3
compiler options
  table of, PORT-1
Compiling
  C program, SBRR-3
  FORTRAN77 program, SBRR-3
  Pascal program, SBRR-3
compiling bitmap distribution fonts, UXW-7
compiling message catalogs, NLS-4
compiling programs, FAFM-2
compiling window programs, FAFM-4
compress, SSEC-8
compress command, UXW-7
COMPUTE_RAD_FIRST definition, SBRR-3, SBRR-6
COMPUTE_RAD_STEP definition, SBRR-3, SBRR-6
COMPUTE_RAY_TRACE definition, SBRR-6
computer font, AXE-1
compute_type parameter, SBRR-6
Computing global renderings, SBRR-3
concealed representation, W9KD-2, W9KD-4
concealing a window on create, W9KD-4
concealing a window vi wdisp(1), W9KD-4
conceptual background for Windows/9000, W9KD-2
conceptualizing security, SAT-2
Conditional index mode, SBRR-5
confidentiality, need for, SSEC-8
config, SAC-9
config command, SAT-9
configuration
  configuration description file, SAC-7
  HP-UX cluster kernels, SAC-12
  information sources, SAT-2
  kernel drivers, SAC-9
  swap space, SAC-7
  terminal, SAC-10
Configuration, ICXW-2
configuration clients. UXW-4
configuration description file, SAT-9
configuration description file (dfile), SAT-9
configuration files, UXW-5, SSEC-6
```

```
editing, UXW-5
  mwm, UXW-6
Configuration files, ICXW-2
configuration menu, (System), W9KD-2
configuration parameters, SSEC-6
configurations
  custom, UXW-7
  default, UXW-7
  special, UXW-7
configuring
  altering swap space, SAT-9
  device drivers, SAT-9
  interface cards, SAT-9
  list of drivers, AXE-9
  operating system parameters, SAT-9, SAT-A
  X Server, UXW-7
configuring an HP-UX system, SAT-2
configuring a system, SAT-2
configuring devices, SAT-8
configuring HP-UX swap space for Windows/9000, W9KD-A
configuring shared memory, example, W9KD-A
configuring swap space, example, W9KD-A
configuring, window manager, UXW-2
configuring X11, SAT-2, AXE-9
connect, SSEC-7
connecting cables, TUX-8
connecting peripherals, SAC-9
connecting programs with pipes, AXE-3
connectivity, check, TUX-B
connect session accounting, SAC-13
consistency, SSEC-5
consistency check, TUX-B
console logs, SSEC-6
const, CPG-2
constant folding, CPG-3
constant propagation, CPG-3
constants, optimizations performed on, CPG-3
constructing an HP-UX system, SAT-2
contaminated files, SSEC-5
contents. AXE-3
contents area, W9KD-2
```

```
context, SAC-12, TUX-4, TUX-4
  context string, TUX-4
  types of, TUX-4
Context, SAT-10
context attributes, SAC-12
Context-dependent file, SAT-10
Context-Dependent File (CDF), SAT-10
Context-Dependent Files, SAT-10
Context Dependent Files, TUX-2, TUX-4, TUX-5
  /dev, TUX-4
  /etc/btmp, TUX-7
  /etc/inittab, TUX-4
  /etc/utmp, TUX-7
  /etc/wtmp, TUX-7
  /hp-ux, TUX-4
  /usr/bin/cancel, TUX-2
  /usr/bin/slp, TUX-2
  /usr/lib/disable, TUX-2
  /usr/lib/lpsched, TUX-2
contexts for keyboard bindings, UXW-6
continuation inode, SAC-8
continuation inodes, SSEC-8
continuous process, AXE-7
contracting text, UXW-4
control boxes
  icon-to-window, W9KD-3, W9KD-5
  icon to window, W9KD-3
  move, W9KD-3, W9KD-5
  move icon, W9KD-3
  pause terminal (term0) window output, W9KD-3
  pause terminal window output, W9KD-5
  size, W9KD-3, W9KD-5
  window-to-icon, W9KD-5
Control Dials Module. See 46085A
control information area of shared memory, W9KD-A
control key, BGTE-3, AXE-2-3, AXE-Glossary
controlling administrative domain, SSEC-10
controlling communication, UXW-2
controlling direction of font manager writes, FAFM-3
controlling file access selectively, SSEC-4
controlling process, SAC-5
```

```
controlling terminal, SAC-5
control of flow, BGUS-2
Control routines, SBRR-3
controls, window manager, UXW-3
conventions, UXW-1
  bold text, BGXW-1
  colored text, BGXW-1
  computer text, BGXW-1
  italic text, BGXW-1
  manual, NLS-1
conventions, typograpical, BGUX-1
conversion of existing programs, NLS-4
conversion specification %n$, NLS-7
conversion utilities, UXW-9
converting to a secure (trusted) system, SSEC-2
coordinates, absolute for graphics tablet scaling, W9KD-5
coordinates, combining absolute and percentage graphics tablet,
    W9KD-5
coordinates, display screen, W9KD-2
coordinates, high-resolution, W9KD-2
coordinates, low-resolution, W9KD-2
coordinates, percentage for graphics tablet scaling, W9KD-5
coordinate system(VDC), BGSB-3
coordinate_type parameter, SBRR-4
copying
  sys.x11start to .x11start, UXW-5
  sys.Xdefaults, UXW-5
  text, UXW-4
copying a file, BGUX-3
copying files, AXE-3
copying HP-UX files to LIF volumes, SAT-6
copying text, BGTE-4
copying to a different file, BGTE-3
copy propagation, CPG-3
core dump, TUX-7
core files, TUX-9
corner pieces, UXW-3
corporate culture, SSEC-6
correcting errors in commands
  Korn Shell, BGUS-3
correcting file system corruption, SAC-8
```

```
correcting typing mistakes with (Back space), BGUX-2
COUNTER_CLOCKWISE definition, SBRR-4
cpacl, SSEC-8
cp command, BGUX-3-4, BGUS-5
cpio, AXE-9
cpio, SSEC-8, SAT-11
cpio command, BGUX-9
cpio command, SAT-11
cpset, SSEC-8
crash, AXE-8
crash recovery, AXE-7
crash, using a recovery system, SAT-2, AXE-9
CRC, SAC-10
creat, SSEC-7
create_scene routine, SBRR-3, SBRR-5
Create Window pop-up menu option, W9KD-3, W9KD-5
creating
  a file system, SAT-6
  a LIF volume, SAT-6
  more swap space, SAT-6
creating a group, SAT-5
creating a message catalog, NLS-4
creating a terminal (term0) window via pop-up menu, W9KD-3
creating a window, AXE-6
creating a window, disabling simultaneous creates, W9KD-5
creating a window, side-effect on destroyed windows, W9KD-4
creating a window via wcreate(1), W9KD-4
creating a window with a shell, W9KD-4
creating directories with mkdir, BGUX-4
creating files, BGTE-2-3, AXE-3, AXE-5
creating folders, AXE-3
creating icons, AXE-6
creating system run-levels, SAC-6, SAT-2
cron, SAC-13
cron, SSEC-8
  cron.allow, SSEC-8
  cron.deny, SSEC-8
cron daemon, SAT-6
cron in an HP-UX cluster, SAC-12
crontab, SSEC-2, SSEC-9
crontab command, BGUX-9
```

```
crontab command, SAT-6
cross-hairs, AXE-6
cross hatch, BGSB-6
CRT, UXW-2
CRT special file, W9KD-5
csh, AXE-3
C-shell, W9KD-4
C shell, UXW-5
C Shell, BGUX-2-3, BGUX-6, BGUS-2-5, NLS-5
  command history, BGUS-3
  modifying recalled commands, BGUS-3
  recalling commands, BGUS-3
  re-executing commands, BGUS-3
csh.login, SAT-2
.cshrc, SSEC-8, SAT-2, AXE-9
.cshrc, executing in a newly created window, W9KD-4
.cshrc script, BGUS-4
ctime, NLS-4
ctime library routine, NLS-4
(CTRL), AXE-2
CTRL + arrow keys (moving the pointer), W9KD-2
CTRL-C, BGUX-2
(CTRL)-(d), AXE-3
(CTRL)-(D), BGUX-2
CTRL & down, W9KD-2
(CTRL)-(I), AXE-3
CTRL & left, W9KD-2
CTRL + letter O (selecting the base font), W9KD-4
CTRL-N (selecting the alternate font), W9KD-4
CTRL & right, W9KD-2
CTRL & up, W9KD-2
CTRL-V, BGTE-6
ctype(3C) library routine, NLS-4
Culling, SBRR-5
cull_mode parameter, SBRR-5
CULL_NORMAL definition, SBRR-5
currency, NLS-2
current directory, BGUX-4, BGUS-4
current directory, security of your, BGUS-4
current message, BGUX-7
cursor, UXW-5, W9KD-2, AXE-2, AXE-5, AXE-Glossary
```

```
Cursor, SBPX-4, SBPX-Glossary. See also 46089A
cursor control, fast alpha, FAFM-2
Cursor.c program, FAFM-2
cursor movement, AXE-5
cursor movement commands, BGTE-2
cursor movement, unexpected, BGTE-1
cursor, of the fast alpha fainfo structure, FAFM-2
curve_resolution routine, SBRR-4
Curves
  Trimming, SBRR-4
custom
  bitmaps, UXW-5
  color database, UXW-7
  cursors, UXW-5
  masks, UXW-5
  pixmaps, UXW-6
  screen configurations, UXW-7
custom behavior, disabling, UXW-6
customization
  definition, AXE-9
  environment files, SAC-2, AXE-7
customizing
  clients, BGXW-4
  colors, BGXW-3, BGXW-A
  keyboard input, UXW-7
  windows, BGXW-D
customizing HP-UX, SAT-2, AXE-9
customizing wmstart(1), W9KD-5
customizing your kernel, SAT-9, AXE-9
cut buffer, UXW-4
cut command, BGUS-5
cutting text, UXW-4
C, VMS to HP-UX
  compiler environment, PORT-2
  floating point types, PORT-2
  language features, PORT-2
  overview, PORT-2
  preprocessor features, PORT-2
  system differences, PORT-2
  VMS version of C, PORT-2
cyclic redundancy check, SAC-10
```

cylinder group, SAC-8 cylinder group information, SAC-8 cylinder groups, TUX-B cylinder groups, salvaging, TUX-B

daemon, SSEC-8 D data, AXE-Glossary data and code space, computing the size of, W9KD-A data and code space, relation to shared memory, W9KD-A data blocks, SAC-8 Datacomm Interface. See 98628A data directionality, NLS-2, NLS-7 data file listing, AXE-3 data files, AXE-4 data formatting, NLS-7 data integrity, NLS-4 data loss, SSEC-9, AXE-8 data order, NLS-7 data paths, AXE-3 data recovery, SSEC-9 data safe, AXE-8 data segment, SAC-7 data size, SAT-A data storage, SAC-8 data storage, file servers, UXW-2 data types, CPG-2 data types on other C compilers, CPG-2 date, NLS-3, NLS-6 date, SAT-2, AXE-7, AXE-9 date.cat', NLS-6 date command, BGUX-2, BGUX-6, BGUS-4 date display, NLS-7 date, setting it, SAT-2, AXE-9 days, display, NLS-2 dcblock_write routine, SBRR-7 DCE, defined, UXW-2 dd, AXE-5 dd command, AXE-9 deactivating users, SAT-5 dead code elimination, CPG-3 deadlock, SAC-8

```
dead store elimination, CPG-3
dead terminal window, attaching a shell to, W9KD-4
debugging incompatible object files, CPG-3
declaring resources, UXW-6
decoration, UXW-2
DEC VT102, UXW-4
default, BGTE-6
  device files path, UXW-7
  display number, UXW-3
  input device file, UXW-7
  screen configuration, UXW-7
  X0devices configuration, UXW-7
default alternate font, W9KD-4
default alternate font used in terminal windows, W9KD-5
default background border color, W9KD-5
default base and alternate fonts, returning to, W9KD-4
default base font, W9KD-4
default base font used in terminal windows, W9KD-5
default behavior, switching to, UXW-6
default button bindings, UXW-6
default color map, W9KD-4
default colors, environment variables, W9KD-5
Default configuration, ICXW-2
Default display configuration, ICXW-3
default display update interval, UXW-4
defaultenhancements, of fast alpha fainfo structure, FAFM-2
defaultenhancements, of the fast alpha fainfo structure,
    FAFM-2
default environment, BGTE-6, AXE-3
default files, UXW-3
Default files, ICXW-3
default font directory, W9KD-5
default foreground border color, W9KD-5
default icon placement, changing, W9KD-5
default keyboard bindings, UXW-6
default local login script, SAC-4
default login scripts, BGUS-5
default message
  alternatives, NLS-4
  in catgets call, NLS-4
  in default message catalog, NLS-4
```

default native language, NLS-5 default options, BGTE-6 default printer, AXE-3 default printing, for users, AXE-9 default prompts, BGUS-3 default root menu, UXW-3, UXW-6 default screen configuration file, UXW-7 default server, UXW-3 default size of pty cache, W9KD-A Default startup, ICXW-3 default string, NLS-4 default terminal, UXW-4 default value of WMIUICONFIG, W9KD-5 default window menu, UXW-6 default window name. W9KD-3 default window size, W9KD-4 defining macros, BGTE-6 defining the display, UXW-7 defining word abbreviations, BGTE-6 definition installation, SAT-2 update, SAT-2 definition of system administrator, SAT-1, AXE-8 Definitions ABSOLUTE_RES, SBRR-4 ALL_LIGHTS_ON, SBRR-6 CLOCKWISE, SBRR-4 CMAP_FULL, SBRR-4, SBRR-7 CMAP_MONOTONIC, SBRR-4, SBRR-7 COMPUTE_RAD_FIRST, SBRR-3, SBRR-6 COMPUTE_RAD_STEP, SBRR-3, SBRR-6 COMPUTE_RAY_TRACE, SBRR-6 COUNTER_CLOCKWISE, SBRR-4 CULL_NORMAL, SBRR-5 DIFFUSE_LIGHT, SBRR-4 GAMMA_CORRECTION, SBRR-6 INIT, SBPX-3 INT_SOLID, SBRR-4 MAX_NON_LIGHT_INTENSITY, SBRR-7 NO_ITEM_BUFFER, SBRR-5 NO_LIGHT, SBRR-4

```
NO_RES, SBRR-4
  ON, SBRR-4
  PRUNE_NORMAL, SBRR-5
  RAD_AMBIENT, SBRR-5
  REF_INTENSITY, SBRR-7
  RESET_DEVICE, SBPX-3
  SCREEN_ITEM_BUFFER, SBRR-5
  STARBASE_AMBIENT, SBRR-5
  STEP_SIZE, SBRR-4
Delete char), AXE-2
Delete line , AXE-2
delete_scene routine, SBRR-3, SBRR-5
deleting
  files, AXE-3
  folders, AXE-3
  text, AXE-5
deleting a directory with rmdir, BGUX-4
deleting a file with rm, BGUX-3
deleting hosts with xhost, UXW-5
deleting macros, BGTE-6
deleting mail messages, BGUX-7
deleting menu selections, BGXW-5
deleting text, BGTE-2
deleting word abbreviations, BGTE-6
demand-load, SAC-7
demand loading, SAC-7
demand-paged virtual memory, SAC-7
demand-paged virtual memory management, SAC-7
demand paging, SAC-7
Department of Defense
  Trusted Computer System Evaluation Criteria, SSEC-1
Department of Defense Trusted Computer System Evaluation
    Criteria, SSEC-6
depth_cue_color routine, SBRR-4
depth_cue_range routine, SBRR-4
depth_cue routine, SBRR-4
depth option, UXW-9
description of chapters, SAT-1
description of wlist(1) report, W9KD-4
desktop, UXW-1
desk top analogy, W9KD-2
```

```
desk top background color, changing, W9KD-5
desk top dither pattern, changing the, W9KD-5
desk top foreground color, changing, W9KD-5
destination device, AXE-Glossary
destroy dead window automatically when new window created,
    W9KD-4
destroy icon, AXE-6
destroying a closed window when a new window is created,
    W9KD-4
destroying an icon via the pop-up menu, W9KD-3
destroying a window, UXW-9
destroying a window automatically when device interface closed,
    W9KD-4
destroying a window via the pop-up menu, W9KD-3
destroying a window via wdestroy(1), W9KD-4
destroying a window when its device interface is closed, W9KD-
destroying windows automatically on shell termination, W9KD-
Destroy pop-up menu option, W9KD-3
destroy window, AXE-6
detailed window commands, AXE-6
detecting file system corruption, SAC-8
detecting irregularities, SSEC-5
determining amount of swap space, SAC-7, AXE-9
determining colorable elements, UXW-5
determining if the window manager is running, W9KD-4
determining string length, font manager, FAFM-3
determining which shell is used in new terminal windows,
    W9KD-4
determining window process usage via ps(1), W9KD-A
/dev, AXE-4
/dev, SSEC-8
/dev/console, W9KD-4
/dev/crt, W9KD-5
/dev/hilkbd, W9KD-5
device address, TUX-5
device classes, SAC-9
device driver, BGSB-2
  definition, SAC-9
  major number, SAC-9
```

```
program to find, BGSB-A
device driver file, UXW-7
device driver for display screen, W9KD-5
device driver, hp98720w, W9KD-B
device drivers
  configuring, AXE-9
  configuring them, SAT-9
Device drivers, ICXW-2
device file, SAC-9
  block, SAC-8
  block vs. character, SAC-9
  character, SAC-8
  definition, SAC-9
  description, SAC-9
  naming convention, SAC-9
  network, SAC-9
  path name, SAC-9
device file, display device, W9KD-5
device files, TUX-2-3, TUX-6, TUX-8
  character, AXE-9
  definition, AXE-4, AXE-Glossary
  digitizer, AXE-9
  GPIO, AXE-9
  HP-HIL, AXE-9
  mass storage, AXE-9
  naming convention, AXE-9
  naming convention for plotters and digitizers, AXE-9
  plotter, AXE-9
Device Files, TUX-8
device files, window system, W9KD-5
device independence, BGSB-1
device interface, window type, W9KD-4
device library, BGSB-2
device mapping, SAC-7
device path, BGSB-2
devices
  general procedure for configuring them, SAT-8
  general procedure for installing them, SAT-8
  managing them, SAT-8
  overview of managing them, SAT-8
devices, character or raw, SAC-9
```

```
devices, drivers, SAC-9
devices, input, UXW-7
device special files, SSEC-8
 ownership, SSEC-8
  permissions, SSEC-8
Device specification (input), SBPX-6
/dev/locator, W9KD-4
/dev/pty, W9KD-5, W9KD-A
/dev/ptym, W9KD-5, W9KD-A
/dev/rhil, W9KD-5
/dev/screen, W9KD-5
/dev/tty, SSEC-9
/dev/ttyp8, W9KD-5
dfile
  the configuration description file, SAT-9
dfile samples, SAT-9
dialback, SSEC-8
dial-in accounts, SSEC-8
dialit.c, TUX-3
dial subroutine, PORT-5
diff, SSEC-5
Diffuse light, SBRR-Glossary
DIFFUSE_LIGHT definition, SBRR-4
digital clock, UXW-4
digitizer
  device file, AXE-9
  minor number, AXE-9
Digitizers. See 46087/88A
DIO to LGB Interface Card. See 98726A
Direct Access Secondary Storage, SAC-10
direct execution of script files, AXE-3
direction of font manager writes, controlling, FAFM-3
directories, SSEC-5
  accessing, BGUX-4
  changing access to, BGUX-A
  changing who has access to, BGUX-8
  changing with cd, BGUX-4
  concepts, BGUX-4
  creating with mkdir, BGUX-4
  current working, BGUX-4
  dynamic, SSEC-8
```

```
execute/search permission, BGUX-4
  finding out who has access to, BGUX-4
  hierarchy, BGUX-4
  home directory, BGUX-4
  listing with 1sf, BGUX-4
  moving and copying files with mv and cp, BGUX-4
  organizing your files, BGUX-4
  path names, BGUX-4
  permissions, BGUX-4, BGUX-8
  protecting with chmod, BGUX-8
  pyramid analogy, BGUX-4
  read permission, BGUX-4
  removing with rmdir, BGUX-4
  root (/), BGUX-4
  search permission, BGUX-4
  security, BGUX-4, BGUX-8
  static, SSEC-8
  wildcard characters in directory names, BGUX-4
  write permission, BGUX-4
directories, protection, SAC-8
directory, AXE-3, AXE-Glossary
Directory
  architecture-specific, SAT-10
  context-dependent, SAT-10
  hidden, SAT-10
directory access, SSEC-4
directory for window system special files, W9KD-5
directory, moving one to a new disk, AXE-9
directory, moving one to another disk, SAT-6
dirs command, BGUS-5
dirx parameter, SBRR-4
diry parameter, SBRR-4
dirz parameter, SBRR-4
disable processing of special characters, AXE-3
disabling
  the LP Spooler, AXE-9
disabling an account, SSEC-8
disabling clipping, font manager, FAFM-3
disabling menu abort when pointer moves outside menu bound-
    ary, W9KD-5
disabling pop-up menus over a window's border, W9KD-5
```

```
disabling pop-up menus over the desk top dither pattern,
    W9KD-5
disabling (Select) for interactive window operations, W9KD-5
disabling simultaneous window creates, W9KD-5
disabling the arrows in a window's border, W9KD-5
disabling the beep when interactive user errors occur, W9KD-5
disabling the icon control box, W9KD-5
disabling the move control box, W9KD-5
disabling the pause control box, W9KD-5
disabling the size control box, W9KD-5
disabling the terminal (term0) window cache, W9KD-5
discretionary access control (DAC), SSEC-6, SSEC-6
Discs, SBRR-4
disk
  crash, AXE-7
  definition, AXE-Glossary
  usage, AXE-8
disk blocks
  buffer caching, TUX-6
  fragments, TUX-6
disk drive, adding one, SAT-6, AXE-9
disk drive, removing one, SAT-6, AXE-9
Disk Drives. See 790x, 793x, 795x, 796x, 913x, 915x, 989x
Disk Drives, SCSI. See 795x
Disk Interface. See 98625A, 98625B
disk layout, SAC-8
diskless clusters, UXW-2
diskless workstations, UXW-2
disk organization
  Series 300 computers, TUX-7
  Series 800 computers, TUX-7
disk partitions, SSEC-9
  protecting, SSEC-8
disks, SSEC-9
disk sections, TUX-7
disks, hard, UXW-2
disk space, SSEC-2
  analyzing, SAT-3
  errors, SAT-3
  for 7.0, SAT-3
  freeing, SAT-3
```

insufficient, SAT-3 organization, TUX-7 shortages, TUX-7 superuser's extra,, TUX-7 system performance, TUX-7 Disk Space shortage, TUX-7 disk space allocation, SAC-8 disk space usage accounting, SAC-13 disk special files, SSEC-8 disktab, SAC-7 Disk/Tape Drives. See 791x, 794x diskusg, SSEC-8 display, UXW-2, UXW-4 defining, UXW-7 finding variables, UXW-7 hardware, UXW-7 pixmap for monochrome, UXW-6 server, UXW-2 specifying on the command line, UXW-4 DISPLAY, ICXW-3 Display Compatibility Interface. See 98546A Display control Data, SBPX-Glossary Focus window, SBPX-4, SBPX-Glossary Policy, SBPX-4, SBPX-Glossary Display-control data, SBPX-4 display device file, W9KD-5 displayed representation, W9KD-4 Display-enable mask, SBPX-4 display_enable routine, SBRR-5 Display hardware, SBPX-2 display hardware options, UXW-9 displaying remote processes, selection method, UXW-4 displaying text, BGTE-5 displaying the root menu, BGXW-2 displaying the window menu, BGXW-2 Display list segment, SBRR-4 display parameter, SBRR-7 display planes, UXW-9 Display resources

Shared, SBPX-4 display screen coordinates, W9KD-2 display screen device driver, W9KD-5 display screen origin, W9KD-2 display screen, repainting via pop-up menu, W9KD-3 display screen resolution, effect on default fonts, W9KD-4 display screen size, W9KD-2 display screen size, high-resolution, W9KD-2 display screen size, low-resolution, W9KD-2 display screen special file, W9KD-5 display stack, W9KD-4 Display type, ICXW-4 Display variable, ICXW-3 display variable, resetting, UXW-7 disseminating security information, SSEC-6, SSEC-8 distributed computing environment, defined, UXW-2 dither pattern, general overview, W9KD-5 dither pattern of desk top, changing, W9KD-5 DMA Controller Card. See 98620B dmmax, SAC-7 dmmin, SAC-7 double, CPG-2 Double buffer, ICXW-3 Double buffering, SBPX-3 double buffering, defined, UXW-9 double-clicking, UXW-3 **▼**, AXE-2 dragging, UXW-3 dragging a window, BGXW-2 draw, BGSB-3 draw2d, BGSB-3 draw3d routine, SBRR-4 Drawing control data, SBPX-4, SBPX-Glossarv Driver sox11, SBPX-2 driver for display screen, W9KD-5 driver number, AXE-Glossarv driver parameter, SBPX-3 drivers, AXE-9 list of, SAT-9, AXE-9 drivers, configuring, SAC-9

```
du command, BGUS-3
dumb windows, UXW-9
dump, SSEC-8
dump analysis, SSEC-6
dumpmsg, NLS-6
dumpmsg command, NLS-4
duplicate block, TUX-B
duties of a system administrator, SAT-1
Dvorak keyboard, UXW-7
dynamic data space (heap), relation to shared memory, W9KD-
dynamic swap, SAT-6, AXE-9
dynamic swap and /etc/checklist, SAC-7
dynamic swap space, SAC-7
e, AXE-5
E, AXE-5
echo, W9KD-2, AXE-3
Echo, SBPX-4, SBPX-Glossary
echo command, BGUS-3
echo, moving via the keyboard, W9KD-2
echo, moving via the mouse, W9KD-2
echo, moving via the puck, W9KD-2
echo, moving via the stylus, W9KD-2
echo shapes over different screen areas, W9KD-2
ecvt library routine, NLS-4
ed, SSEC-8
edit, AXE-Glossary
editing, UXW-5
  button bindings, UXW-6
  button click timing, UXW-6
  files, UXW-5
  keyboard bindings, UXW-6
  menus, UXW-6
  modifier key bindings, UXW-7
  preferences, UXW-7
  X0screens, UXW-7
editing environment files, SAT-2, AXE-9
editing existing files, BGTE-2
editing previous commands in the Korn Shell, BGUS-3
editing the command line, AXE-2
```

Ε

```
editor options, BGTE-3, BGTE-6
editors, AXE-5
EDITOR variable, BGUS-3, BGUS-5
ed line editor, BGTE-1
education, SSEC-6
effective group ID, SAC-5
effective user ID, SAC-5
effective user ID (euid), SSEC-8
Efficiency, in ray tracing, SBRR-6
electronic mail, see also mail, BGUX-7
elements, UXW-6
elevators, AXE-6
elevators, in a graphics window's border, W9KD-3
elevators, using to pan a graphics window, W9KD-3
ellipse routine, SBRR-4
elm, SAT-2
elm command, see also mail, BGUX-7
emulating an HP terminal, UXW-4
enable auditing, SSEC-2
enabling
  dynamic swap, SAT-6, AXE-9
  long file names, SAT-6
  LP Spooler, AXE-9
enabling clipping, font manager, FAFM-3
enabling the LP spooler, SAT-7
enclosing folder, AXE-3
encrypted password field, SSEC-8
encryption, password, SSEC-8
end functions, UXW-6
ending an editing session, BGTE-3
end-user, NLS-2
end vi, AXE-5
enforcement locking mode, SAC-8
"Engine Detail" image (ray tracing), SBRR-2
enhancements, of the fast alpha fainfo structure, FAFM-2
enhancements to fast alpha characters, FAFM-2
enlarging a window, BGXW-2
ENOMEM, SAC-7
entering
  text, AXE-2
  vi, AXE-5
```

```
windows, AXE-6
entering commands, BGTE-3
entering text, BGTE-2
entering vi, BGTE-2
enum, CPG-2
env, UXW-5
env(1) with wmstart(1), W9KD-5
ENV environment variable, BGUS-5
. environ, BGUX-3, AXE-3
.environ, SAT-2, AXE-9
environment, BGTE-6, AXE-Glossary
  automatically starting, BGXW-6
  coloring, BGXW-3
environment changes, NLS-3
environment color placement, UXW-5
environment file
  .cshrc, SAT-2, AXE-9
  .environ, SAT-2, AXE-9
  /etc/btmp, SAT-2
  /etc/checklist, SAT-2
  /etc/csh.login, AXE-9
  /etc/csh.login, SAT-2
  /etc/group, SAT-2
  /etc/inittab, SAC-2, SAC-6
  /etc/inittab, SAT-2
  /etc/issue, AXE-9
  /etc/issue, SAT-2
  /etc/motd, AXE-9
  /etc/motd, SAT-2
  /etc/passwd, SAT-2
  /etc/profile, AXE-9
  /etc/profile, SAT-2
  /etc/rc, SAC-2
  /etc/rc, SAT-2
  /etc/securetty, AXE-9
  /etc/securetty, SAT-2
  /etc/ttytype, AXE-9
  /etc/ttytype, SAT-2
  /etc/utmp, SAT-2
  /etc/wtmp, SAT-2
  .exrc, SAT-2, AXE-9
```

```
local, SAT-2, AXE-9
  .login, SAT-2, AXE-9
  .profile, SAT-2, AXE-9
  /usr/lib/terminfo, SAT-2, AXE-9
  /usr/lib/tztab, SAT-2, AXE-9
environment files, SAT-2, AXE-9
  changing, AXE-3
  default environment, AXE-3
  /etc/csh.login, AXE-7
  /etc/inittab, AXE-7
  /etc/profile, AXE-7
  /etc/rc, AXE-7
  getenv, AXE-3
  home folder, AXE-3
  PAM, AXE-3
  search path, AXE-3
  setting action, AXE-3
  variable assignment, AXE-3
environment files /usr/news, SAT-2, AXE-9
environment inherited when window is created, W9KD-4
environment of a process, relation to environment variables,
    W9KD-5
Environments
  Operating, SBPX-2
environment, shell, BGUS-4
environment variable
  ACTION, AXE-3
  HOME, AXE-3
  LANG, NLS-4
  LANGOPTS, NLS-5
  NLSPATH, NLS-4
  PATH, AXE-3, AXE-7
  SCRSHELL, AXE-3
  TERM, AXE-3, AXE-7
  TZ, SAT-2, AXE-3, AXE-7, AXE-9
Environment variable
  SB_INDEV, SBPX-3
  SB_INDRIVER, SBPX-3
  SB_OUTDEV, SBPX-3
  SB_OUTDRIVER, SBPX-3
  SB_OVDEV, SBPX-3
```

SB_OVDRIVER, SBPX-3 Setting, SBPX-3 WMDIR, SBPX-3 environment variables, BGUS-4, UXW-6, SSEC-9 assigning values, BGUS-4 BANNERFONT, W9KD-5 CDPATH, BGUS-5 definition, BGUS-4 description, NLS-3 EDITOR, BGUS-5 ENV, BGUS-5 example, NLS-3 global, BGUS-5 HOME, BGUS-4 ICONFONT, W9KD-5 LANG, BGUS-5, NLS-6 LANG, W9KD-4 LANGOPTS, NLS-6 LC_categories, NLS-6 local, BGUS-5 LOGNAME, BGUS-4 LOGNAME, SAC-4 MAIL, BGUS-4 NLSPATH, NLS-6 PATH, BGUS-4 PS1, BGUS-4 referencing the value, BGUS-4 SB_DISPLAY_ADDR, W9KD-A SB_DISPLAY_ADDR, W9KD-5 SB_OV_SEE_THRU_INDEX, W9KD-B setting, NLS-3, NLS-6 SHELL, BGUS-3 SHELL, W9KD-3 TERM, BGUS-4-5, AXE-9 TERM, W9KD-5, SAC-4 TZ, BGUS-4 WMALTFONT, W9KD-5 WMBASEFONT, FAFM-2, W9KD-5 WMBDRBGCLR, W9KD-5 WMBDRFGCLR, W9KD-5 WMCONFIG, W9KD-5

WMDESKBGCLR, W9KD-5 WMDESKFGCLR, W9KD-5 WMDESKPTRN, W9KD-5 WMDIR, W9KD-4 WMDIR, W9KD-5 WMDRIVER, W9KD-5 WMFONTDIR, W9KD-4 WMFONTDIR, FAFM-3, W9KD-5 WMIATIMEOUT, W9KD-5 WMINPUTCTLR, W9KD-5 WMIUICONFIG, W9KD-2, W9KD-5 WMKBD, W9KD-5 WMLOCATOR, W9KD-4 WMLOCATOR, W9KD-5 WMLOCSCALE, W9KD-5 WMMENUFONT, W9KD-5 WMPTYCACHECNT, W9KD-5 WMPTYCNT, W9KD-5, W9KD-A WMPTYMDIR, W9KD-5, W9KD-A WMPTYNAME, W9KD-5, W9KD-A WMPTYSDIR, W9KD-5 WMRTPRIORITY, W9KD-5 WMSCRN, W9KD-5 WMSFKFONT, W9KD-5 WMSHMSPC, W9KD-5, W9KD-A environment variables, general overview, W9KD-5 environment variables, rationale for using, W9KD-5 environment variables, setting, W9KD-5 environment variables, setting from /etc/csh.login, W9KD-5 environment variables, setting from /etc/profile, W9KD-5 environment variables, setting from .login, W9KD-5 environment variables, setting from login scripts, W9KD-5 environment variables, setting from .profile, W9KD-5 environment variables, setting from system login scripts, W9KD-5 environment variables, setting on the command line with wmstart(1), W9KD-5 environment variables, summary of, W9KD-5 ENV variable, BGUS-4 erase icon, AXE-6 erase kev

```
setting, SAC-4
erase window, AXE-6
error message
  during backup, AXE-8
  Sorry, pid pidnum was message., AXE-9
  swap: rmap ovflo, lost ..., AXE-9
  system panic, AXE-7
  Unable to access ttyxx, AXE-9
error messages, BGXW-4, UXW-5
  boot errors, TUX-5
  command not found, BGXW-2
  Device Busy, TUX-6
  during boot-up, TUX-4
  Failed kernel selftest, TUX-4
  File exists - use "w! file_name" to overwrite, BGTE-
      3
  fsck, TUX-B
  Line too long, BGTE-3
  open failure, TUX-5
  Pattern not found, BGTE-5
  vi: command not found, BGTE-1
Error messages, ICXW-4
error messages during level 2 optimization, CPG-3
error messages in SAM, SAT-1, AXE-9
error output, AXE-3
errors, BGSB-2
  initialization phase, TUX-B
  networking, AXE-3
  standard error output, AXE-3
  vi, AXE-5
errors, recovering from, BGTE-2
escape, AXE-2, AXE-5
escape character, BGTE-5
escapecodes structure, FAFM-3
escape key, BGTE-2
escape sequences for font management, W9KD-4
/etc, SAC-4
/etc, SSEC-5, SSEC-8
/etc/auditrc, SSEC-2
/etc/bcheckrc, SAC-2, AXE-7
/etc/btmp, SAT-2
```

```
/etc/catman, SAT-2
/etc/checklist, SAT-2
/etc/checklist and dynamic swap, SAC-7
/etc/clusterconf, SAC-12
/etc/copyright file, BGUS-5
/etc/csh.login, NLS-5
/etc/csh.login, executing in newly created window, W9KD-4
/etc/csh.login script, BGUS-4-5, SAC-4
/etc/csh.login, setting environment variables from, W9KD-5
/etc/cwall, SAT-2
/etc/d.cshrc script, BGUS-5
/etc directory, BGUS-4
/etc/d.login, SAC-4
/etc/d.login script, BGUS-5
/etc/d.profile script, BGUS-5
/etc/exports, SSEC-5
/etc/filesets, SSEC-2
/etc/ftpusers, protecting accounts with, SSEC-10
/etc/getty, SAC-2, SAC-10
/etc/gettydefs, SAC-10
/etc/group, SSEC-5, SSEC-8, SAT-2
/etc/hosts.equiv, SSEC-10
/etc/hosts file, UXW-5
/etc/init, SAC-2, SAC-6, AXE-7
/etc/inittab, SAC-2, SAC-6, AXE-7
/etc/inittab, SSEC-8, SAT-2
/etc/issue, AXE-9
/etc/issue, SAT-2
/etc/last, SAT-2
/etc/logingroup, SSEC-8, SAT-5
/etc/man_fix, SAT-2
/etc/motd, AXE-9
/etc/motd, SAT-2
/etc/motd file, BGUS-5
/etc/mount, SSEC-8
/etc/netgroup, SSEC-5
/etc/newconfig/, ICXW-2-3, ICXW-B
/etc/newconfig/auditrc, SSEC-2
/etc/news, SAT-2
/etc/passwd, W9KD-4, SAC-4
/etc/passwd, SSEC-5, SSEC-8-9, SAT-2, SAT-5
```

```
/etc/passwd file, BGUS-3
/etc/profile, W9KD-4, NLS-5
/etc/profile or /etc/csh.login, AXE-9
/etc/profile or /etc/csh.login, SAT-2
/etc/profile script, BGUS-4-5, SAC-4
/etc/profile, setting environment variables from, W9KD-5
/etc/rc, SAC-2, SAC-13, AXE-7
/etc/rc, SSEC-8, SAT-2
/etc/securetty, AXE-9
/etc/securetty, SAT-2
/etc/shutdown, AXE-Glossary
/etc/ttytype, AXE-9
/etc/ttytype, SAT-2
/etc/umount, SSEC-8
/etc/utmp, SSEC-8, SAT-2
/etc/wall, SAT-2
/etc/wtmp, SSEC-8, SAT-2
evaluating user needs, SAT-2
event failure, SSEC-7
Events, SBPX-6
events, auditable, SSEC-7
event success, SSEC-7
examining the file system, SAT-6
example
  FM_clipping.c, FAFM-3
  FM_Colors.c, FAFM-3
  FM_Direction.c, FAFM-3
  FM_Struct.c, FAFM-3
  Font_size.c, FAFM-3
  Style.c, FAFM-3
examples
  changing the fast alpha environment, FAFM-2
  chmod, AXE-3
  chmod symbolic syntax, AXE-3
  Clear.c, FAFM-2
  clear_gr.c, FAFM-2
  colors, setting for fast alpha font, FAFM-2
  disabling display of fast alpha cursor, FAFM-2
  fast alpha cursor, disabling display of, FAFM-2
  fast alpha cursor positioning, FAFM-2
  fast alpha environment, changing, FAFM-2
```

```
fast alpha, loading and activating a font, FAFM-2
 fast alpha rectangle, scrolling, FAFM-2
 fast alpha, writing characters, FAFM-2
 FM_length.c, FAFM-3
 font colors, setting for fast alpha, FAFM-2
 font manager, getting font information, FAFM-3
 font manager, loading a font, FAFM-3
 getting font information, FAFM-3
 initializing the fast alpha environment, FAFM-2
 loading a font manager font, FAFM-3
  loading and activating a fast alpha font, FAFM-2
  pipes, AXE-3
  positioning the fast alpha cursor, FAFM-2
  quoting, AXE-3
 redirection, AXE-3
  script files, AXE-3
  scrolling a fast alpha rectangle, FAFM-2
  sequential processing, AXE-3
  setting fast alpha font colors, FAFM-2
  terminating the fast alpha environment, FAFM-2
  writing fast alpha characters, FAFM-2
Examples
 NewColorMap, SBPX-3
  rad_demo1.c, SBRR-3
  ray_demo1.c, SBRR-3
exec, SAC-7
  calls to, NLS-7
exec Bourne shell command, starting window manager, W9KD-
    4
exec system call, PORT-5
execute permission, SAC-8, AXE-3, AXE-5
execute permission for files, BGUX-3, BGUX-8
execute/search permission for directories, BGUX-4, BGUX-8
executing
  commands, AXE-3
  PAM, AXE-3
  programs, AXE-3
executing wmstart(1); as a sub-process, W9KD-4
executing wmstart(1) as your login shell, W9KD-4
executing wmstart(1) from .login, W9KD-4
executing wmstart(1) from .profile, W9KD-4
```

```
execution, BGSB-2, AXE-Glossary
     execv, SSEC-7
     execve, SSEC-7
     exit, SSEC-7
     exit command, BGUX-2, BGUS-3
     exiting
       clients, UXW-3
       programs, UXW-4
       the system, AXE-2
       windows, AXE-6
       window system, UXW-3
     exiting a pop-up menu, W9KD-2
     exiting from a shell in a window, W9KD-4
     exiting the window system, W9KD-3
     exiting vi, BGTE-2
     exiting X11, BGXW-2
     Exit WS option of pop-up menu, W9KD-3
     ex line editor, BGTE-1
     expanded characters, NLS-2
     Expander, INSP-3
     explicit focus policy, UXW-6
     export command, BGUS-4
     expr command, BGUS-2
     expressions, optimizations performed on, CPG-3
     .exrc file, BGTE-6
     extending text, UXW-4
     Extension Module. See 46080A
     extensions, UXW-5
     external access, SSEC-8
     external data representation (XDR), SAC-11
     FABONW, FAFM-2
F
     faclear, FAFM-2
     FACOLOR, FAFM-2
     fa_coordinate structure, FAFM-2
     Factor
       Form, SBRR-Glossary
     facursor, FAFM-2
     FACURSORNOMOVE, FAFM-2
     fafontload, FAFM-2
     fagetinfo, FAFM-2
```

fa.h header file, FAFM-2

failed access, SSEC-7

failure, event, SSEC-7

failure of the recovery system, SAT-2, AXE-9

Fainfo program, FAFM-2

fainfo structure, FAFM-2

fainfo structure, description of fields, FAFM-2

fainit, FAFM-2

FAOFF, FAFM-2

fa_rectangle structure, FAFM-2

farectwrite, FAFM-2

faroll, FAFM-2

FAROLLDOWN, FAFM-2

FAROLLLEFT, FAFM-2

FAROLLRIGHT, FAFM-2

FAROLLUP, FAFM-2

fasetinfo, FAFM-2

fast alpha, W9KD-A

fast alpha active font, FAFM-2

fast alpha character enhancements, FAFM-2

fast alpha character strings, writing, FAFM-2

fast alpha cursor control, FAFM-2

fast alpha environment, changing, FAFM-2

fast alpha environment, getting information about, FAFM-2

fast alpha environment, initializing, FAFM-2

fast alpha environment, setting, FAFM-2

fast alpha environment, terminating, FAFM-2

fast alpha font, activating, FAFM-2

fast alpha font cache, FAFM-2

fast alpha font colors, setting, FAFM-2

fast alpha font id, FAFM-2

fast alpha font management, FAFM-2

Fast Alpha/Font Manager differences, FAFM-3

fast alpha font, removing from cache, FAFM-2

fast alpha fonts, loading, FAFM-2

Fast Alpha Library, FAFM-2

Fast Alpha Library, linking with programs, FAFM-4

Fast Alpha Library, relation to Font Manager Library, FAFM-3

fast alpha, loading fonts, FAFM-2

fast alpha protocol, FAFM-2

fast alpha rectangle, clearing, FAFM-2

```
fast alpha rectangle, filling with characters, FAFM-2
fast alpha rectangles, FAFM-2
fast alpha rectangle, scrolling, FAFM-2
fast alpha, writing characgters, FAFM-2
faterminate, FAFM-2
FAWINDOW, FAFM-2
FAWONB, FAFM-2
fawrite, FAFM-2
fbackup, SSEC-8
fbackup and frecover utilities, SAT-11
fchmod, SSEC-7
fchown, SSEC-7
fcpacl, SSEC-8
feedbackwindows, appearance, UXW-6
fflush, BGSB-2
fg command, BGUS-3
fgetacl, SSEC-8
fields used by SAM data entry screens, SAT-1, AXE-9
FIFO, SAC-8
Figures
  "High Surface Illumination Quality", SBRR-4
  "High Surface Resolution Setting", SBRR-4
  "Levels of Anti-Aliasing", SBRR-5
  "Low Surface Illumination Quality", SBRR-4
  "Low Surface Resolution Setting", SBRR-4
  "Progressive Radiosity After 1 Step", SBRR-6
  "Progressive Radiosity After 2 Steps", SBRR-6
  "Progressive Radiosity After 7 Steps", SBRR-6
  "Ray-Tree Parameters", SBRR-5
FIGURES
  Example Boot ROM Display, SAT-10
file
  core, TUX-7, TUX-9
  /etc/bcheckrc, TUX-5
  /etc/brc, TUX-5
  /etc/btmp, TUX-7
  /etc/clusterconf, TUX-4
  /etc/disktab, TUX-7
  /etc/gettydefs, TUX-8
  /etc/inittab, TUX-3, TUX-5, TUX-8
  /etc/mnttab, TUX-6
```

```
/etc/passwd, TUX-3
  /etc/rc, TUX-5
 /etc/utmp, TUX-7
  /etc/wtmp, TUX-7
  /tmp/cluster.log, TUX-4
  /usr/adm/errorlog, TUX-4
  /usr/adm/rbootd.log, TUX-4
  /usr/lib/uucp/Devices, TUX-3
  /usr/lib/uucp/Dialers, TUX-3
  /usr/lib/uucp/Permissions, TUX-3
  /usr/lib/uucp/Systems, TUX-3
  /usr/spool/uucp/DIALLOG, TUX-3
File
  context-dependent, SAT-10
  XOscreens, SBPX-3
file access, controlling, SSEC-8
file access, controlling selectively, SSEC-4, SSEC-8
file descriptor, BGUX-6, BGSB-2
file hierarchy, NLS-5
file indicator, AXE-3
file limit, W9KD-A
file limit, examples, W9KD-A
file limit, getting around, W9KD-A
file owner, SAC-8
file permissions, SSEC-4, SSEC-8, SSEC-8
file permissions, listing, SSEC-4
file restoration, AXE-8
files
  accessing, BGUX-3
  archiving, TUX-7, AXE-4
  Autost, AXE-3
  backup, AXE-4
  block and character device, SAC-9
  byte count, SSEC-5
  changing access to, BGUX-8, BGUX-A
  comparison to folders, AXE-3
  concepts, BGUX-3
  contents, AXE-3
  copying, AXE-3
  copying between directories, BGUX-3
  copying with cp, BGUX-3
```

corrupt, TUX-6 corrupted, TUX-6 creating, AXE-3, AXE-5 creating with cat, BGUX-3 data, AXE-4 definition, AXE-Glossary deleting, AXE-3 determining file system, TUX-6 device, SAC-9, AXE-4 device files for ptys, SAC-9 direct execution, AXE-3 .environ, AXE-3 finding, AXE-4 format and compatibility, SAC-8 /hp-ux, AXE-8 invisible file names, BGUX-3 listing, BGUX-3, AXE-3 listing ACL permissions with lsacl, BGUX-A locking, SAC-8 logging, AXE-8 login, SAT-5 managing, AXE-4 missing, TUX-6 moving, TUX-7, AXE-3 moving between directories, BGUX-4 naming, BGUX-3 naming conventions, AXE-4 organization, AXE-4 organizing in directories, BGUX-4 ownership, TUX-6, SAT-5 permissions, BGUX-3, BGUX-8, TUX-6, AXE-3 printing, BGUX-3, AXE-3 printing them, SAT-7 programs, AXE-4 protecting with chmod, BGUX-8 protection, SAC-8, AXE-7 purging, AXE-4 redirecting input and output, AXE-3 removing, TUX-7 removing with rm, BGUX-3 renaming, AXE-3

renaming with mv, BGUX-3 required for the system, AXE-8 running, AXE-3 security, BGUX-8 sharing, SAC-8 special, SAC-9 transferring, AXE-9 types, AXE-4, AXE-Glossary viewing contents of, BGUX-3 wildcard characters (?, *) in file names, BGUX-4 files and directories, system, SSEC-8 file servers, defined, UXW-2 file set removing, AXE-9 Fileset, ICXW-2, ICXW-4, ICXW-B fileset, AUDIT, SSEC-2 fileset definitions, 7.0, AXE-9 Filesets, ICXW-2 File Space Switch (FSS) size, SSEC-2, SSEC-7 files, transferring them, SAT-6 file system, TUX-6 adding a disk drive, SAT-6, AXE-9 adding swap space, SAT-6 alternate superblock locations, SAC-8 alternatives for backup media, SAT-11 automatic backups, SAT-11 backup, AXE-8 backup and restore, SAT-11 backups, TUX-6 boot area, SAC-8 buffer cache, SAC-8 care, AXE-8 checking, SAC-2 checking consistency, SAT-6 checking during bootup, AXE-7 checking filename length, SAT-6 configuration description file, SAT-9 corruption, SAC-8, TUX-6 corruption (symptoms of), TUX-6 crash, AXE-7 creating one, SAT-6

data blocks, TUX-6 data storage, SAC-8 debugger (fsdb), SAC-8 deciding what to backup, SAT-11 default, AXE-9 disk blocks, TUX-6 disk layout, SAC-8 disk usage, AXE-8 enabling long file names, SAT-6 environment files, SAT-2, AXE-9 finding, NLS-5 folder structure, AXE-4, AXE-8, AXE-Glossary fragments, TUX-6 free space, AXE-8 fsck, AXE-8 fsck during bootup, AXE-7 having the the appropriate run level, SAT-2 hierarchy, AXE-7 inconsistency, TUX-6 indirect blocks, TUX-6 inodes, TUX-6 LIF format, SAT-6 log files, SAT-6 logging files, AXE-8 logical vs. physical layout, TUX-6 lost+found directory, TUX-6 making one, SAT-6 managing it, SAT-6 manual backup and restore procedures, SAT-11 monitoring it, SAT-6 mounting, TUX-6, AXE-8 mounting one manually, SAT-6 mounting or unmounting one, SAT-6 mounting/unmounting in an HP-UX cluster, SAC-12 moving a directory, SAT-6 moving one to a new disk, AXE-9 moving one to another disk, SAT-6 organization, NLS-5 orphaned files, TUX-6 periodic checks, AXE-8 recovery system, SAT-2, AXE-9

removing a disk drive, SAT-6, AXE-9 required files, AXE-8 restoring files after a crash, SAT-11 restoring from a backup, AXE-8 root, SAC-2, TUX-7, AXE-7 selecting commands and scripts, SAT-11 size, SAC-8 structure of, TUX-6 superblock, TUX-6 syncer, TUX-6 system administrator files, SAT-6 system panic, TUX-9 transferring files, SAT-6 unmounting, TUX-6 unmounting one, SAT-6 unmounting or mounting one, SAT-6 using a recovery system, SAT-2, AXE-9 using checklist to mount them, SAT-6 file system consistency check (fsck), TUX-B file system, mounting, SSEC-9 file systems, SSEC-5 exporting, SSEC-5 planning backup and restore, SAT-11 unmounting, SSEC-9 file_to_bitmap routine, SBRR-7 file usage, for user processes, W9KD-A file usage, window system, W9KD-A fill_color_index, BGSB-8 fill_color routine, SBRR-4 filler bytes, CPG-2 filling a fast alpha rectangle with characters, FAFM-2 filter programs, BGUX-7 find, SSEC-5, SSEC-8, SAT-11 find command, BGUX-9 find command, SAT-11 finding files, AXE-4 Finding HP-UX Information, BGUX-1 finding text, AXE-5 findmsg, NLS-4 findmsg command, NLS-4 findstr, NLS-4

```
findstr command, NLS-4
firstof2 library routine, NLS-4
FIRSTof2 macro, NLS-4
flexible disk
  for backups, AXE-Glossary
  media initialization, SAT-6
flexible disk drive
  for backups, AXE-8
  setting up, AXE-9
Flexible Disk Drives. See 912x
flint., PORT-2
float, CPG-2
floating point
  fuzziness, PORT-1
  Series 800, PORT-1
  types for C, PORT-2
Floating-Point Accelerator. See 98248A/B
floating point incompatibility with pre-6.5, CPG-3
Floating Point Math Card. See 98635A
floating point precision, possible problems, CPG-3
flow, control of, BGUS-2
fm_activate, FAFM-3
fm_clipflag, FAFM-3
fm_cliplim, FAFM-3
FM_clipping.c example, FAFM-3
FM_Colors.c example, FAFM-3
FM_Direction.c example, FAFM-3
fm_fileinfo, FAFM-3
fm_fontdir, FAFM-3
fm_getname, FAFM-3
FM_length.c example, FAFM-3
fm_load, FAFM-3
fm_opt, FAFM-3
fm_rasterinfo, FAFM-3
fm_remove, FAFM-3
fm_str_len, FAFM-3
fm_str_len, relation to clipping, FAFM-3
FM_Struct.c example, FAFM-3
fm_write, FAFM-3
Focus
  Policy, SBPX-Glossary
```

```
focus policies, UXW-6
Focus window
  Display control, SBPX-4
  Input, SBPX-4
Focus Window, SBPX-3
folders
  arrow key, AXE-3
  closing, AXE-3
  comparison to files, AXE-3
  creating, AXE-3
  definition, AXE-3-4, AXE-Glossary
  deleting, AXE-3
  folder area, AXE-3
  folder listing, AXE-3
  movement, AXE-3
  moving, AXE-3-4, AXE-9
  opening, AXE-3
  renaming, AXE-3
  rereading, AXE-3
  structure, AXE-4, AXE-8
font, AXE-1
  text, BGSB-7
Font
  16-bit, SBPX-5
  8-bit, SBPX-5
  Character set, SBPX-5, SBPX-Glossary
  File, SBPX-5, SBPX-Glossary
  File format, SBPX-Glossary
  File formats, SBPX-5
  Format, SBPX-5
  Libraries, SBPX-5
font, activating fast alpha, FAFM-2
font alias, UXW-5
font, alternate, W9KD-4
font, base, W9KD-4
font, baseline height, FAFM-3
font cache, font manager, FAFM-3
font cell, FAFM-3
fontcellheight, of the fast alpha fainfo structure, FAFM-2
font cell size, W9KD-4
fontcellwidth, of the fast alpha fainfo structure, FAFM-2
```

font color, font manager, FAFM-3

font colors, setting for fast alpha, FAFM-2

font compiler. See bdftosnf

font, definition, W9KD-4

font directory, W9KD-4

font directory, default, W9KD-5

font environment variables, W9KD-5

font environment variables, examples of using, W9KD-5

font file, FAFM-3, W9KD-4

font file name, W9KD-4

font for pop-up menus, effect on swap space requirements, W9KD-A

font height, FAFM-3

fonticon.h header file, FAFM-3

font id, fast alpha, FAFM-2

font id, font manager, FAFM-3

font information for a window, listing via wlist(1), W9KD-4 fontlist, UXW-5

font management escape sequences, W9KD-4

font management, fast alpha, FAFM-2

font management, font manager model, FAFM-3

font manager, activating a font, FAFM-3

font manager, active font, FAFM-3

font manager, clipping, FAFM-3

font manager, color, FAFM-3

font manager, direction of write, FAFM-3

font manager, disabling clipping, FAFM-3

font manager, enabling clipping, FAFM-3

Font Manager/Fast Alpha differences, FAFM-3

font manager font cache, FAFM-3

font manager, font color, FAFM-3

font manager, font id, FAFM-3

font manager font table, FAFM-3

font manager, getting font size information, FAFM-3

Font Manager Library, FAFM-3

Font Manager Library concepts, FAFM-3

Font Manager Library, linking with programs, FAFM-4

font manager, loading fonts, FAFM-3

font manager, obtaining information about fonts, FAFM-3

font manager, optimizing writes, FAFM-3

font manager, removing a font, FAFM-3

font manager, removing fonts, FAFM-3 font manager, setting clip limits, FAFM-3 font manager, string length, FAFM-3 font manager, write direction control, FAFM-3 font manager, writing characters, FAFM-3 font name, W9KD-4 font name, getting with font manager, FAFM-3 font name, specifying to wfont(1), W9KD-4 font path (see font name), W9KD-4 fonts, BGXW-D, UXW-4 extensions, UXW-5 fixed, UXW-4 list of, BGXW-D list of available, UXW-4 specifying, UXW-5 Fonts, ICXW-3, ICXW-B Fonts.c program, FAFM-2 fonts, default, W9KD-5 font size, FAFM-3 Font_size.c, example, FAFM-3 font size, getting with font manager, FAFM-3 fonts per window, maximum number of, W9KD-4 font style, FAFM-3, W9KD-4 font style, getting font manager information, FAFM-3 font table, font manager, FAFM-3 font used for icon labels, W9KD-5 font used for window label, W9KD-5 font used in pop-up menu, W9KD-5 font used in pop-up menus, W9KD-5 font used in softkey labels, W9KD-5 font width, FAFM-3 fopen, NLS-4 Foreground, UXW-7 foreground border color, W9KD-4 foreground border color, setting via wborder(1), W9KD-4 foreground color of border, default, W9KD-5 foreground color of desk top, changing, W9KD-5 foreground operation, BGUS-3 foregroundplanes, of the fast alpha fainfo structure, FAFM-2 foreground process, BGUS-3, AXE-6 foreground process group, SAC-5

```
foreground processing, UXW-1
foreground, putting background jobs into, BGUS-3
fork, SSEC-7
format of an icon, W9KD-2
format of pop-up menu, W9KD-2
format of source message files, NLS-4
format of window, W9KD-2
formatting
  date and time, NLS-4
  monetary, NLS-4
  numeric, NLS-4
Form factor, SBRR-Glossary
Form factors, radiosity, SBRR-6
form for system administration substitute, SAT-1
FORTRAN among HP-UX versions
  array dimension limits, PORT-4
  calls to C, PORT-4
  calls to other languages, PORT-4
  common region names, PORT-4
  compiler directives, PORT-4
  compiler options, PORT-4
  data file compatibility, PORT-4
  data type alignment, PORT-4
  data types, PORT-4
  data type sizes, PORT-4
  error conditions, PORT-4
  long identifiers, PORT-4
  mixing C/FORTRAN I/O, PORT-4
  overview, PORT-4
  parameter passing, PORT-4
  predefined filenames, PORT-2
  problems with C struct, PORT-4
  problems with Pascal record, PORT-4
  recursion, PORT-4
  string constants, PORT-4
  $TMPDIR, PORT-4
  vector instruction set, PORT-4
FORTRAN, VMS to HP-UX
  applications without lib calls, PORT-2
  character sets, PORT-2
  control statements, PORT-2
```

data representation, PORT-2 data types, syntaxes, PORT-2 graphics, PORT-2 intrinsic functions, PORT-2 I/O statements, PORT-2 listing of, PORT-2 local variable storage, PORT-2 miscellaneous items, PORT-2 overview, PORT-2 preconnected files, PORT-2 predefined files, PORT-2 program format, PORT-2 recursion effects, PORT-2 specification statements, PORT-2 statement syntax, PORT-2 subprograms, PORT-2 symbolic names, PORT-2 system name conflicts, PORT-2 windows, PORT-2 with lib calls, PORT-2 FORTRAN, VMS to HP-UX type coercions, PORT-2 forward scrolling, BGTE-3 forward searches, BGTE-5 fprintf, NLS-7 fprint library routine, NLS-4 fragment, SAC-8, AXE-Glossary frame, SAC-10 frame buffer, W9KD-A, W9KD-B frames, UXW-2-3, UXW-6 frecover, SSEC-8 free block, SAC-8 free space, SAC-8 free space threshold, AXE-Glossary fscanf, NLS-7 fsck alternate superblock locations, SAC-8 description, SAC-8 during bootup, SAC-2, AXE-7 mounted file system, SAC-8 preen mode, SAC-2

```
errors, TUX-6
       interactive mode, TUX-6
       interpreting results, TUX-6
       -n option, TUX-6
       preening mode, TUX-6
       quiesent file system, TUX-6
       use with caution, TUX-6
       -y option, TUX-6
     fsck command, SAT-6
     fsetacl, SSEC-7
     fsetaclentry, SSEC-8
     ftio, SSEC-8
     ftok subroutine, PORT-5
     ftruncate, SSEC-7
     function keys, AXE-3, AXE-Glossary
     function, recursive, BGUS-3
     functions, UXW-6
     functions, in the Bourne and Korn Shells, BGUS-3
G
     G, AXE-5
     games, SSEC-6
     GAMMA_CORRECTION definition, SBRR-6
     gamma parameter, SBRR-7
     garbage data
       on printers, TUX-6
       on terminals, TUX-8
     gclose, BGSB-2
     gclose(3G) when using fast alpha routines, FAFM-2
     gcvt library routine, NLS-4
     gencat, NLS-4
       example, NLS-6
     gencat command, NLS-4
     general system dependencies across HP-UX, PORT-4
     generating message catalogs, NLS-4
     getaccess, SSEC-8
     getacl, SSEC-8
     getcontext, TUX-4
     getenv, AXE-3
     getitimer, SSEC-9
     getlocale, NLS-7
```

fsck, SSEC-8-9, TUX-5, TUX-6

getpwent, SSEC-8 getspwent, SSEC-8 get secure password entries, SSEC-8 gettimeofday system call, PORT-5 getting a font's name with font manager, FAFM-3 getting fast alpha environment information. FAFM-2 getting font manager style information, FAFM-3 getting font size information, font manager, FAFM-3 getting help in SAM, SAT-1, AXE-9 getting information outside this manual, SAT-1, AXE-8 getting input from files, AXE-3 getting started, AXE-2 getty, SAC-2, SAC-10, AXE-7 getty, SSEC-6, TUX-8, SAT-2 gettydefs, TUX-8 global environment variables, BGUS-5 global items, pop-up menu, W9KD-2 Global rendering, SBRR-Glossary Computation, SBRR-3, SBRR-6 Control routines, SBRR-3, SBRR-5 Defined, SBRR-1 Hidden surface removal, SBRR-4 Model building, SBRR-3 Output, SBRR-3, SBRR-7 Process, SBRR-3 Recognized primitives, SBRR-4 Scenes, SBRR-3 Segment traversal, SBRR-4 global search and replace, AXE-5 global variables, CPG-3 global variables and optimization, CPG-2 global variables, effects on optimization, CPG-3 good-citizen process, W9KD-A gopen, BGSB-2 gopen(3G), relation to Font Manager Library, FAFM-3 gopen(3G) when using fast alpha routine, FAFM-2 goto command, BGTE-3 GPIO, AXE-9 gpio_get_status subroutine, PORT-5 GPIO Interface. See 98622A gpio_set_ctl subroutine, PORT-5

```
grabbing the title bar, BGXW-2
graphical user interface, UXW-2
Graphics Accelerator, SBPX-4. See also 98556A
graphics accelerators, UXW-2
Graphics cards, ICXW-A
Graphics Display Station. See 98700, 98720A, 98730A
Graphics Display Station Interface. See 98287A
graphics functions clients, UXW-4
Graphics hardcopy, SBPX-7, SBPX-Glossary
graphics icon, W9KD-2, AXE-6
Graphics libraries, SBPX-1
graphics monitors, UXW-9
Graphics Resource Manager, ICXW-B
graphics station, described, UXW-2
graphics tablet, AXE-6
Graphics Tablet. See 45911A, 9111A
graphics tablet, general description, W9KD-2
graphics tablet interface, SAC-9
graphics tablet pen, W9KD-2
graphics tablet puck, W9KD-2
graphics tablet scaling, W9KD-5
graphics tablet scaling default value, W9KD-5
graphics tablet stylus, W9KD-2
graphics terminals, INSP-9. See also Terminals
graphics window, AXE-6
graphics window hotspots, effect on swap space requirements,
    W9KD-A
graphics window type, W9KD-2
graphics window type, displaying text using Fast Alpha, FAFM-
Gregorian calendar, NLS-2
grep, NLS-4
grep, SSEC-5, SSEC-8
grep command, BGUS-3, BGUS-5
grid, bitmap, UXW-5
GRM (Graphics Resource Manager), SBPX-4
group, SSEC-8, SAT-2, AXE-3
  access list, SAC-5
  ID, SAC-8
group ID (gid), SSEC-8
groups, SSEC-6
```

adding a group, SSEC-8
changing membership, SAT-5
creating one, SAT-5
criteria, SSEC-8
modifying a group, SSEC-8
privileged, SAT-5
removing a group, SSEC-8
groups, managing them, SAT-5
guidelines for message catalogs, NLS-4
guidelines for portability, PORT-1
gwind, UXW-9
gwindstop, UXW-4, UXW-9

H h, AXE-5

halting the system, SAC-3, AXE-7 halt window scrolling, AXE-6 handling the file system, SAT-6 Hardcopy, SBPX-7 hard disk, UXW-2 definition, AXE-Glossary media initialization, SAT-6 hard disk drive system (root), SAC-9 hardware, UXW-2, UXW-7 device address, TUX-2 failure at boot-up, TUX-5, TUX-9 failure of peripheral, TUX-9 flags, PORT-1 for floating point math, PORT-1 installation, SAT-2 problem, TUX-3 terminals, TUX-8 testing, SAT-2 UUCP connections, TUX-3 Hardware, ICXW-3, ICXW-A hardware address, SAC-9, TUX-2, TUX-5 Hardware color map, SBPX-4, SBPX-Glossary Hardware configuration, ICXW-3 hardware failure, SAC-8 hardwired, SAC-10 hatch_type, BGSB-6

Hayes Smartmodem 1200. See 92205A/C header files

fa.h, FAFM-2

fonticon.h, FAFM-3

heap management, Pascal workstation, PORT-6 heap, relation to shared memory, W9KD-A

height of font, FAFM-3

height parameter, SBRR-4

help

getting information outside this manual, SAT-1, AXE-8

helpful tips for managing files, AXE-4

help in SAM, SAT-1, AXE-9

help, on-line, BGUX-5

heterogeneous cluster, SAC-12

hex, AXE-Glossary

hexadecimal color values, UXW-4

HFS file system, SAC-8, AXE-Glossary

hidden directories, TUX-4, TUX-4

contents of, TUX-4

hidden directory, SAC-12

Hidden directory, SAT-10

hidden file, AXE-Glossary

hidden files, SSEC-5

Hidden surface removal, SBRR-4

hidden_surface routine, SBRR-4, SBRR-7

hierarchical file system, BGUX-4

hierarchy of files, AXE-4

highlight, AXE-3

high-resolution coordinates, W9KD-2

high-resolution display, W9KD-B

high-resolution displays, screen size, W9KD-2

High Resolution Video Boards. See 98548/49/50A

"High Surface Illumination Quality" figure, SBRR-4

"High Surface Resolution Setting" figure, SBRR-4

hints for using SAM, SAT-1, AXE-9

HISTFILE shell variable, BGUS-5

histogram. See xload

history command, BGUS-5

history shell variable, BGUS-5

HISTSIZE shell variable, BGUS-5

home, AXE-2

AXE-2 \$HOME/bin, SAC-4 \$HOME/.cshrc script, BGUS-4 home directory, BGUX-4, BGXW-3 changing to, BGXW-3 home directory, referring to, BGUS-3 home directory (see also \$HOME environment variable), BGUS-5 HOME environment variable, BGUS-4 HOME environment variable, AXE-3 \$HOME/.exrc, SAT-2, AXE-9 home folder, AXE-3 \$HOME/.history file, BGUS-5 \$HOME/.kshrc script, BGUS-4 \$HOME/.login script, BGUS-4-5, SAC-4 \$HOME/.logout script, BGUS-4 \$HOME/.profile script, BGUS-4 HOME shell variable, BGUS-4 \$HOME/.sh_history file, BGUS-5 homogeneous cluster, SAC-12 hostname, SAT-10 Host name, ICXW-2 hostname command, BGUX-7, BGUS-4 hosts, ICXW-3 hosts, UXW-5 hosts.equiv, SSEC-5 hotspot, UXW-5 HP-15, SBPX-5 HP-15 fonts, W9KD-4 HP 2622, W9KD-2 HP 2627, W9KD-2 hp9836, W9KD-5 hp98720 device driver, W9KD-B HP 98720 display coordinates, W9KD-2 HP 98720 Graphics Display Station, W9KD-B hp98720w device driver, W9KD-B HP 98721, W9KD-B hp98730 device driver, W9KD-B HP 98730 display coordinates, W9KD-2 HP 98730 Graphics Display Station, W9KD-B hp98730w device driver, W9KD-B

HP-GKS, SBPX-1, SBPX-4

```
HP-HIL, ICXW-3, AXE-9
HP-HIL devices, UXW-2
HP-HIL input controller, W9KD-5
HP-HIL input device, W9KD-2
HP-HIL input devices, W9KD-4
hpib_abort subroutine, PORT-5
hpib_bus_status subroutine, PORT-5
hpib_eoi_ctl subroutine, PORT-5
HP-IB Interface. See 98624A
hpib_rqst_srvce subroutine, PORT-5
hpimage subroutine, PORT-5
hpitch, of font manager escapecodes structure, FAFM-3
HP OSF/Motif reference books, UXW-1
hpterm, ICXW-3, ICXW-B
hpterm, UXW-2-5, SSEC-9
HP Term0 terminal, UXW-4
HP terminal emulation with hpterm, UXW-4
HP Touch Bezel. See 35723A
/hp-ux, SAC-8
/hp-ux, SSEC-8
HP-UX, UXW-1-2, ICXW-2, AXE-1, AXE-3-4, AXE-Glossary
  account management, SAT-5
  adding a user, SAT-5
  backup and restore, SAT-11
  backup and restore commands, SAT-11
  communications, SAT-2
  config command, SAT-9
  configuration description file, SAT-9
  configuring a system, SAT-2
  constructing a system, SAT-2
  customization, SAT-2, AXE-9
  customizing the kernel, SAT-9, AXE-9
  dfile, SAT-9
  fileset definitions, 7.0, AXE-9
  information for configuration, SAT-2
  manual backup and restore procedures, SAT-11
  networking systems, SAT-2
  operating system parameters, SAT-A
  planning backup and restore, SAT-11
  portability overview, PORT-4
  reconfig command, SAT-9
```

recovery system, SAT-2, AXE-9 restoring files after a crash, SAT-11 shutdown, SAT-4 subroutines, PORT-5 superuser capabilities, SAT-1 superuser definition, SAT-1 system accounting, SAT-2 system calls, PORT-5 tips, UXW-1 updating, SAT-3, AXE-9 using a recovery system, SAT-2, AXE-9 HP-UX cluster adding a cluster client, SAT-10 adding a cluster node, SAT-10 autocreation, SAC-12 backup kernel, SAC-12 booting the cluster, SAC-2 CDF, SAC-12 cluster node name, SAT-10 commands and files used in clusters, SAC-12 configuring, SAT-10 configuring kernels, SAC-12 connecting to another network, example, SAT-10 context, SAC-12 creating, SAT-10 cron, SAC-12 CSP, SAC-12, SAT-10 definition, SAT-10 /etc/clusterconf file, SAC-12 /etc/hosts, modifying, SAT-10 /etc/netlinkrc, modifying, SAT-10 hidden directory, SAC-12 hostname, SAT-10 internet address, SAT-10 link level address, SAT-10 LP spooler, SAC-12 mail, SAC-12 mounting/unmounting, SAC-12 NS-ARPA files, SAT-10 operating system parameters, SAC-12 overview, SAC-12

process IDs, SAC-12 removing a client, SAT-10 renaming a client, SAT-10 renaming a cluster client, SAT-10 server node name, SAT-10 single-point system administration, SAC-12 station address, SAT-10 swapping, SAC-7, SAC-12 system accounting, SAC-12-13, SAC-13 system administration, SAC-12 system CDF, SAC-9 system clock, SAT-2, AXE-9 UUCP, SAC-12 why use a cluster, SAC-12 HP-UX cluster client, adding, SAT-10 **HP-UX** clusters connecting to another network, SAT-10 **HP-UX** commands message catalogs, NLS-6 HP-UX hostname, SAT-10 HP-UX Minor Numbers, INSP-6 HP-UX operating system, BGUS-2 protections, SSEC-9 risks, SSEC-9 HP-UX Reference, BGUX-5 HP-UX Reference, SSEC-8 HP-UX runstate, TUX-8 HP-UX version number, TUX-1 HP Window Manager, UXW-5 HP Windows/9000, UXW-3, SBPX-1, SBPX-4, AXE-1, AXE-6 Architecture, SBPX-2 hpwm, ICXW-3 hpwm, UXW-2-4, UXW-6, UXW-A Hpwm, ICXW-2 hpwm and mwm differences, UXW-A hpwm window manager, SBPX-4 human factors, SSEC-6 Human (System) Interface Board. See 98562-66530

```
i, AXE-5
ı
    icon, AXE-3, AXE-6
    icon box, UXW-6, AXE-6
      keyboard focus, UXW-6
      minimizing, UXW-6
      placing icons in, UXW-6
      specifying, UXW-6
    icon, change default placement, W9KD-5
    icon, changing to from normal representation, W9KD-4
    icon control box, W9KD-3
    icon control box, disabling, W9KD-5
    icon destroy, AXE-6
    icon, destroyiny via pop-up menu, W9KD-3
    ICONFONT, W9KD-5
    icon format, W9KD-2
    icon, general description, W9KD-2
    iconic option, UXW-6
    iconic representation, W9KD-2, W9KD-4
    iconic representation, interactively changing a window to, W9KD-
        3
    iconic representation on create, W9KD-4
    iconifying a window, UXW-3
    icon, interactively changing a window to an, W9KD-3
    icon, interactively changing to normal representation, W9KD-2
    icon, interactively moving, W9KD-2
    icon, invoking a pop-up menu for, W9KD-2
    icon label, W9KD-2
    icon label, font used for, W9KD-5
    icon move control box, W9KD-3
    icon operations, AXE-6
    icon picture, W9KD-2
    Icon pop-up menu operation, W9KD-3
    icons, BGXW-2
       appearance, UXW-6
       behavior, UXW-6
       coloring, UXW-6
       defined, UXW-2
       displaying window menu, UXW-6
       getting keyboard focus, UXW-6
       image, UXW-5
       label, UXW-6
```

making, BGXW-2 manipulating, UXW-6 menu, UXW-3 moving, BGXW-2 names, UXW-4 normalizing, UXW-3, UXW-6 placement, UXW-3, UXW-6 resources, UXW-6 Restoring, BGXW-2 selecting, UXW-3 sizing, UXW-6 starting clients as, UXW-6 tiling, UXW-6 icons, reationale for using, W9KD-2 icon structure, W9KD-2 icon-to-window control box, W9KD-3 icon types, W9KD-2 icon, un-select window when changed to an, W9KD-5 iconv, NLS-7 identification, SSEC-6 identifier, AXE-Glossary identify burst, SAC-10 identifying character size, NLS-4 identifying character traits, NLS-4 identifying runstate, TUX-8 identifying the system, PORT-4 ID Module. See 46084A IDs, SAC-5 IFS variables, SSEC-9 ignoreeof shell variable, BGUS-5 Illumination Secondary, SBRR-Glossary Illumination model, SBRR-Glossary image mode, UXW-7 Image mode, ICXW-3, SBPX-3-4, SBPX-Glossary image planes, UXW-9, W9KD-B Image refinement, radiosity, SBRR-6 images, UXW-6, UXW-8 **Images** "Chartres Cathedral" (radiosity), SBRR-2 "Engine Detail" (ray tracing), SBRR-2

```
"Jig" (radiosity), SBRR-2
  "Jig" (ray tracing), SBRR-2
  "Laser" (ray tracing), SBRR-2
  "Office Scene" (radiosity), SBRR-2
  "Planetary Gears" (ray tracing), SBRR-2
  "Planet Gears" (radiosity), SBRR-2
  "rad_demo1", SBRR-3
  "rad_demo1' with an Area Light", SBRR-4
  "ray_demo1", SBRR-3
  "ray_demo1' Image With Reflection and Refraction", SBRR-
  "ray_demo1' Image With Reflection Effects Added", SBRR-4
Image scaling, SBRR-Glossary
Image scaling, radiosity, SBRR-7
Image storage (radiosity), SBRR-7
Image storage, ray tracing, SBRR-7
image window type, W9KD-B
immediate report, SAC-10
immediate response mode, SAC-10
implementation dependencies
  7.0, CPG-4
improper system shutdown, TUX-6
improving performance via window manager memory locking,
    W9KD-5
improving the performance of processes' tracking the locator,
    W9KD-5
include files, BGSB-2
inconsistencies, file system, TUX-B
increasing performance by decreasing shared memory, W9KD-A
increasing swap space, SAT-6
incremental backup, AXE-8
index_of_refraction parameter, SBRR-4
indicated file, AXE-3
indicator, AXE-6
inetd.sec, SSEC-6, SSEC-10
inetd.sec, using to restrict outside access, SSEC-10
information for configuration, SAT-2
information outside this manual, SAT-1, AXE-8
inherited environment for newly created windows, W9KD-4
init, SAC-2, SAC-6
init, SSEC-7, TUX-4
```

```
initdefault, SAC-6
INIT definition, SBPX-3
initgroups, SSEC-8
initialization, NLS-7
  creating a LIF volume, SAT-6
  media, SAT-6
initialization clients, UXW-4
initialization phase errors, TUX-B
initialization, system, SSEC-9
initializing
  a program, NLS-4
  program messages, NLS-4
  standard program, NLS-4
initializing the fast alpha environment, FAFM-2
initializing the fast alpha environment, example, FAFM-2
initializing variables, CPG-3
inittab, SAC-10, SAT-2, SAT-4
inittab entries, TUX-8
inode, SAC-8, SSEC-8, AXE-Glossary
inode, root, TUX-B
inodes, TUX-6
input, AXE-Glossary
Input
  Device sharing, SBPX-6
  Device specification, SBPX-6
  Device/window combinations, SBPX-6
  Events, SBPX-6
  Focus, SBPX-6
  Focus policy, SBPX-6
  Introduction, SBPX-6
  Pointer Device, SBPX-6
  Requests, SBPX-6
  Sampling, SBPX-6
  Tracking, SBPX-6
input controller, HP-HIL, W9KD-5
input devices, UXW-2, UXW-7
Input devices, ICXW-3, ICXW-A
input devices, HP-HIL, W9KD-4
input devices, special files, W9KD-5
Input focus, SBPX-Glossary
  Window, SBPX-4, SBPX-Glossary
```

input of files, AXE-3 input/output, native language, UXW-7 Input through a window, SBPX-6 inputting text, AXE-5 ing_bf_surf_global_model routine, SBRR-3 inq_bf_surf_light_model routine, SBRR-3 inq_cond_ind_mode routine, SBRR-3, SBRR-5 inq_rad_ambient_mode routine, SBRR-3, SBRR-5 inq_rad_energy routine, SBRR-3, SBRR-6 inq_rad_scale routine, SBRR-3 inq_ray_aa_parms routine, SBRR-3 inq_ray_item_buffer routine, SBRR-3 inq_ray_output routine, SBRR-3, SBRR-5 inq_ray_tree_parms routine, SBRR-3 inq_scene routine, SBRR-3, SBRR-5 ing_shadow_switch routine, SBRR-3 inq_surf_global_model routine, SBRR-3 inq_surf_illum_quality routine, SBRR-3 inq_surf_light_model routine, SBRR-3 inq_surf_shading_resolution routine, SBRR-3 Insert char , AXE-2 inserting text, BGTE-2 Insert line , AXE-2 insertmsg, NLS-4 example, NLS-4 insertmsg command, NLS-4 insf, SAC-9 insf, SSEC-8 install, SSEC-2 installation optional software, AXE-1 Installation instructions, SBRR-E install due to security breach, SSEC-5 install HP-UX, SSEC-2 installing and configuring communications, SAT-2 installing devices, SAT-8 installing hardware, SAT-2 installing HP-UX software, SAT-2 installing optional locales, NLS-5 Installing RAM, Model 320, INSP-3 Installing RAM, Model 330, INSP-3

Installing RAM, Model 350, INSP-3 installing software. See update int, CPG-2 integer arithmetic, BGUS-2 Integral PC. See Terminals integrity, system, SSEC-6 interaction model, server-client, UXW-2 interaction with Starbase, W9KD-A interactive operations bringing a window to the top of the stack, W9KD-3 creating a terminal (term0) window, W9KD-3 destroying an icon via a pop-up menu, W9KD-3 destroying a window via a pop-up menu, W9KD-3 exiting the window system, W9KD-3 icon change to window, W9KD-3 moving an icon, W9KD-3 moving a window, W9KD-3 panning a graphics window, W9KD-3 pausing terminal (term0) window output, W9KD-3 placing a window on bottom of stack, W9KD-3 repainting the screen, W9KD-3 saving a window, W9KD-3 scrolling a terminal (term0) window, W9KD-3 selecting an icon, W9KD-3 selecting a window, W9KD-3 window change to icon, W9KD-3 interactive operations, general overview, W9KD-3 interactive search, SAC-2 interactive timeout, setting, W9KD-5 interactive user interface, default configuration, W9KD-5 interactive user interface, reconfiguring, W9KD-5 interface card boot ROM search sequence, SAC-2, AXE-7 configuring, AXE-9 configuring them, SAT-9 for plotters or digitizers, AXE-9 HP-IB, SAC-9 line control switch pack settings, AXE-7 root disk, AXE-9 select code, SAC-9 tape drive, AXE-9

Interface Cards Worksheet, INSP-1 interfaces, graphical, UXW-1 interior_style, BGSB-6 interior_style routine, SBRR-4 intermixed listings, TUX-2 internal errors during compilation, CPG-3 internal memory, AXE-Glossary internal terminal emulator (ITE), W9KD-4, W9KD-B internal terminal emulator, relation to wmstop(1), W9KD-4 internationalization, NLS-2 Internationalization, NLS-Glossary internationalized commands, NLS-3 internet address, SAT-10 internetwork mail routing, SAC-11 interprocess communication, SAC-7, SAC-11 inter-process communication (IPC) objects, SSEC-7 inter-record gap, SAC-10 Intrinsics, ICXW-B introduction, AXE-1 INT_SOLID definition, SBRR-4 invalid WMKBD values, W9KD-5 invalid WMLOCATOR values, W9KD-5 invalid WMSCRN values, W9KD-5 invisible file names, BGUX-3 io_burst_ subroutine, PORT-5 ioctl system call, PORT-5 io_get_term_reason subroutine, PORT-5 io_lock subroutine, PORT-5 io_on_interrupt subroutine, PORT-5 io_reset subroutine, PORT-5 io_speed_ctl subroutine, PORT-5 io_timeout_ctl subroutine, PORT-5 io_unlock subroutine, PORT-5 ipcclose, SSEC-7 ipcconnect, SSEC-7 ipccreat, SSEC-7 ipccreate, SSEC-7 ipc datagram, SSEC-7 ipc datagram transactions, SSEC-7 ipcdest, SSEC-7 ipcdgram, SSEC-7

```
ipclookup, SSEC-7
     ipcopen, SSEC-7
     ipcrecven, SSEC-7
     ipcshutdown, SSEC-7
     IRG, SAC-10
     isalpha library routine, NLS-4
     ISL (Initial System Loader), TUX-5
     ISO7, NLS-5
     isolating objects, SSEC-6
     isupper library routine, NLS-4
     italics, AXE-1
     ITE, internal terminal emulator, W9KD-4
     ITE (internal terminal emulator), W9KD-B
     Item buffer, SBRR-Glossary
     item_buffer_mode parameter, SBRR-5
     ITE, relation to wmstop(1), W9KD-4
     itf, AXE-2, AXE-Glossary
J
     j, AXE-5
     J, AXE-5
     "Jig" image (radiosity), SBRR-2
     "Jig" image (ray tracing), SBRR-2
     job control, BGUS-2
     job number, BGUS-3
     jobs
       background, BGUS-3
       controlling, BGUS-3
       foreground, BGUS-3
       monitoring, BGUS-3
       starting, BGUS-3
       stopping, BGUS-3
       terminating, BGUS-3
     jobs command, BGUS-3
     joining lines of text, BGTE-3
     join lines, AXE-5
```

K k, AXE-5 KANA8, NLS-5 Kanji, NLS-2 Katakana, NLS-5 Kbyte or kilobyte, AXE-Glossary keeping track of files, AXE-4 kernel, SSEC-6 adding swap space, SAT-6 altering swap space, SAT-9 config command, SAT-9 configuration description file, SAT-9 configuring drivers, SAC-9, SAT-9, AXE-9 configuring interface cards, SAT-9 configuring operating system parameters, SAT-9 configuring swap space, SAC-7 creating, AXE-9 customization, SAT-9, AXE-9 dfile, SAT-9 driver for HP-HIL, AXE-9 drivers for data communications, AXE-9 general description, AXE-9, AXE-Glossary list of drivers, SAT-9, AXE-9 reconfig command, SAT-9 reconfiguration, SAT-9 system parameters, SAT-A Kernel, ICXW-2 kernel driver interface card, AXE-9 Kernel Drivers and Major Device Numbers, AXE-9 Kernel Drivers, Optional (table), AXE-9 kernel parameters, TUX-4 kernel pty limitations, W9KD-A key bindings, UXW-6 keyBindings resource, UXW-6 keyboard, AXE-2, AXE-6 assigning mouse functions, UXW-7 Dvorak, UXW-7 input devices, UXW-2 input directed by mouse, UXW-3 special keys, UXW-6 using, UXW-6

Keyboard, ICXW-3 keyboard bindings, UXW-6 keyboard, cooked input driver, W9KD-5 keyboard focus, UXW-6 keyboard, general description, W9KD-2 keyboard input, UXW-7 keyboard order, NLS-7 keyboard, raw input driver, W9KD-5 Keyboards. See 46020/21 keyboard select button, W9KD-2 keyboard special file, W9KD-5 keyboard special keys, W9KD-2 keyboard window commands, AXE-6 Key mappings, ICXW-3 key map, printing, UXW-7 key remapping expressions, UXW-7 keys, AXE-1 kill, UXW-9, SSEC-7 kill command, BGUS-3 in terminating jobs, BGUS-3 in terminating processes, BGUS-3 killing processes, UXW-4 programs, UXW-4 killing processes, TUX-8 killing the window system, W9KD-3 kill key setting, SAC-4 kill processes in windows, AXE-6 kind parameter, SBPX-3 kmem, SSEC-8 Knot vectors, SBRR-4 Korn shell, UXW-5, AXE-3 Korn Shell, BGUX-2-3, BGUX-6, BGUS-2-5, NLS-5 command history, BGUS-3 correcting errors in commands, BGUS-3 editing previous commands, BGUS-3 line editing, BGUS-3 recalling commands, BGUS-3 re-executing commands, BGUS-3 .kshrc script, BGUS-4

```
L
     1, AXE-5
     label, icon, W9KD-2
     label of a window, changing via wborder(1), W9KD-4
     label of a window, maximum length, W9KD-4
     label of icon, font used for, W9KD-5
     label of window, font used for, W9KD-5
     labels, icon, UXW-6
     label, window, W9KD-4
     LAN, UXW-2, ICXW-2-4, TUX-4
       link level address, SAT-10
       Link Level Address, TUX-4
       problems with, TUX-9
       station address, SAT-10
       system panics, TUX-9
     LAN/9000, SAC-11
     LANG, NLS-4
     LANG, W9KD-4-5, NLS-3
     LANG environment variable, BGUS-5
     LANG environment variable, NLS-4
     LANGOPTS, NLS-3, NLS-7
     LANG, relation to default fonts, W9KD-5
     language
       name, NLS-5
       number (ID), NLS-5
       supported, NLS-5
     "Laser" image (ray tracing), SBRR-2
     LaserJet 2000 Printer. See 2684
     LaserJet-II Printer. See 33440A
     LaserJet Printer. See 2686A/D
     last, SAT-2
     Latin mode, NLS-7
     LC_categories, NLS-4
     LC_COLLATE, NLS-3
     LC_CTYPE, NLS-3
     LC_MONETARY, NLS-3
     LC_NUMERIC, NLS-3
     1conv, NLS-4
     LC_TIME, NLS-3
     1d, SAC-7
     least privilege, SSEC-6, SSEC-8
     leaving
```

```
vi, AXE-5
  windows, AXE-6
leaving the window system, W9KD-3
leaving vi, BGTE-2
leaving X11, BGXW-2
(1). AXE-2
letter case, BGTE-2
letter-case (lower- and upper-case), BGTE-3
level 2 optimization, compiler messages during, CPG-3
"Levels of Anti-Aliasing" figure, SBRR-5
LF character (selecting the base font), W9KD-4
liability, SSEC-6
libddsox11 library file, SBPX-3
libfa.a, FAFM-4
Libraries
  /usr/lib/libsbrr.a, SBRR-3
libraries, linking with window programs, FAFM-4
libraries with messages, NLS-4
Library
  Graphics, SBPX-1
  libddsox11, SBPX-3
  libsb1 and libsb2, SBPX-3
  libx11, SBPX-3
  libXhp11, SBPX-3
  libXr11, SBPX-3
  libXwindow, SBPX-3
  Xlib, SBPX-2
library routines, naming conventions, CPG-4
libsb1 and libsb2 libraries, SBPX-3
libsbrr library, SBRR-3
libX11 library file, SBPX-3
libXhp11 library file, SBPX-3
libXr11 library file, SBPX-3
libXwindow library file, SBPX-3
LIF, SAC-8, AXE-9
LIF format, AXE-Glossary
LIF format file transfer, SAT-6
LIF (Logical Interchange Format), TUX-5
LIF volumes, SAT-6
Light
  Ambient, SBRR-Glossary
```

Area, SBRR-Glossary Diffuse, SBRR-Glossary Point, SBRR-Glossary light_ambient routine, SBRR-4 light_attenuation routine, SBRR-4 light_model routine, SBRR-4 light_source routine, SBRR-4 Light sources Ambient, SBRR-5 Area lights, SBRR-1, SBRR-4 Point lights, SBRR-3 Radiosity, SBRR-6 light_switch routine, SBRR-4 limit, file, W9KD-A limit, open file, W9KD-A limit, process, W9KD-A limit, pty, W9KD-A limits when creating windows, W9KD-A line control switch pack settings, SAC-2 line, copying using hpterm, UXW-4 line editing, BGUS-2 choosing a command set, BGUS-3 differences between emacs and gmacs, BGUS-3 differences between vi and emacs, BGUS-3 Korn Shell, BGUS-3 recalling commands, BGUS-3 line-editing commands, BGUS-3 line printer spooling system, TUX-2 commands, TUX-2 components of, TUX-2 error messages, TUX-2 paper jams, TUX-2 paper out, TUX-2 printer names, TUX-2 priority fence, TUX-2 remote spooling, TUX-2 scheduler, TUX-2 scheduler status, TUX-2 status of, TUX-2 LINES environment variable, UXW-6 line too long, AXE-5

```
link, SSEC-7
linker differences across HP-UX, PORT-4
linking, TUX-7
Linking
  C program, SBRR-3
  FORTRAN77 program, SBRR-3
  Pascal program, SBRR-3
linking libraries, FAFM-2
linking libraries with window programs, FAFM-4
link level access, SAC-11
Link level address, SAT-10
Link Level Address, TUX-4
link order when compiling window programs, FAFM-4
lint, PORT-2, CPG-3
list
  colors, BGXW-A
  fonts, BGXW-D
list colors, UXW-5
listing ACL permissions with lsacl, BGUX-A
listing activated fonts for a window via wlist(1), W9KD-4
listing extended font information via wlist(1), W9KD-4
listing file permissions, SSEC-4, AXE-3
listing file permissions with 11, BGUX-3, BGUX-8
listing files, AXE-3
listing files with 1s, BGUX-3
listing window attributes, W9KD-4
listing window attributes via wlist(1), W9KD-4
list of vi commands, AXE-5
11, AXE-3
11 command, BGUX-3-4, BGUX-8, BGUX-A
load, UXW-4
load average, SSEC-5
loading a font, W9KD-4
loading AXE, AXE-7
loading fast alpha fonts, FAFM-2
loading font manager fonts, FAFM-3
loading fonts, font manager, FAFM-3
loading HP-UX, SAC-2
load point, SAC-10
local access, UXW-2
local area network, UXW-2
```

```
local area network (LAN), AXE-9
Local Area Network (LAN) Interface. See 98643A
local clients. UXW-4
local customs
  character processing, NLS-4
  string processing, NLS-4
local customs (conventions), NLS-2
locale
  directories for, NLS-5
  form of, NLS-5
locale
  buildlang, NLS-6
  creating new, NLS-6
  default, NLS-5
  displaying, NLS-3
  information, NLS-3
  testing, NLS-3
  verifying installation, NLS-6
localeconv, NLS-7
  example, NLS-4
locale information, NLS-7
local environment file
  .environ, AXE-7
  .login, AXE-7
  .profile, AXE-7
local environment files, SAT-2, AXE-9
local environment variables, BGUS-5
Local Graphics Bus Interface. See 98724A/98725A
local items, pop-up menu, W9KD-2
localization, NLS-2
local login script, BGUS-4
local login script, default, SAC-4
Local operation, SBPX-2, SBPX-Glossary
local processing, UXW-2
local programs, UXW-2
localrc shell function, SAC-2
local swapping, SAC-12
local swapping in HP-UX clusters, SAC-7
local swap space, TUX-4
locating
  clients, BGXW-4
```

```
location. See placement
location of window, W9KD-4
location of window, specifying on create, W9KD-4
location, window, W9KD-4
locator device special file, W9KD-4
lockable memory, SAC-7
lock files, TUX-3
locking, process, SAC-7
locking window manager process into memory, W9KD-5
LOCKRDONLY, SAT-5
log book, TUX-1
  file system example, TUX-6
  sample form, TUX-1
log entries
  streamlining, SSEC-7
log files, SSEC-6, TUX-1, TUX-7, SAT-6
  DIALLOG, TUX-3
  HP-UX Clusters, TUX-4
  UUCP, TUX-3
logging files, AXE-8
logging in, BGUX-2
logging out, BGUX-2
logical address space, SAC-7
logical unit, SAC-9
.login, BGUX-3, W9KD-4, NLS-3, NLS-5
.login, SSEC-8, SAT-2, AXE-9
/login, SSEC-6
login, BGXW-2
login, UXW-1, UXW-4-5, SSEC-3, SSEC-6
  after bootup, AXE-7
  automatically starting X11, BGXW-6
  history, SAT-2
  process, AXE-2, AXE-7, AXE-Glossary
  prompt, AXE-7
  required for user access, AXE-7
  shell, AXE-7
login, automatically starting the window system, W9KD-3
login, automatically starting the window system from, W9KD-4
.login, executing in a newly created window, W9KD-4
.login, executing wmstart(1) from, W9KD-4
.login file, BGTE-6
```

login files, SAT-5 login name, SSEC-8 login program, BGUS-4 login prompt, BGUX-2 login restrictions, SSEC-6 .login script, BGUS-4-5, SAC-4 login script, BGUS-4 .login, setting environment variables in, W9KD-5 login shell, BGUS-3 login shell, executing wmstart(1) as, W9KD-4 login shell in a new terminal (term0) window, W9KD-4 logname, SAC-4 LOGNAME environment variable, BGUS-4 log off, AXE-2 logout, SSEC-7 logout script, BGUS-4-5, SAC-4 long, CPG-2 long file names, SAT-6 long gap, SAC-10 look for text, AXE-5 looking at a file's contents with more, BGUX-3 looking at contents of a file, AXE-3 loops, optimizations performed on, CPG-3 loop unrolling, CPG-3 losing power to the terminal within SAM, SAT-1, AXE-9 loss of data, SSEC-9 /lost+found, SAC-8 /lost+found, SSEC-9 lost+found directory, TUX-6, TUX-B lowercase letters, BGTE-2, UXW-1 low-resolution coordinates, W9KD-2 low-resolution display, screen size, W9KD-2 "Low Surface Illumination Quality" figure, SBRR-4 "Low Surface Resolution Setting" figure, SBRR-4 lp, SSEC-8 lpadmin command, AXE-9 lpadmin command, SAT-7 1p command, BGUX-3, BGUX-9 1pmove command, AXE-9 lpsched, SSEC-7 lpsched command, AXE-9

LP spooler, SAT-7, AXE-9 setting it up, SAT-7 starting it, SAT-7 stopping it, SAT-7 LP spooler commands, AXE-9 LP spooler directories, SAT-7, AXE-9 LP spooling in an HP-UX cluster, SAC-12 1pstat command, BGUX-9 lpstat command, SAT-7 *l_rad* parameter, SBRR-4 ls, SSEC-5, SSEC-8 -H option, SAT-10 lsacl, SSEC-4, SSEC-8 lsacl command, BGUX-A 1s -a command, BGUX-3 1s command, BGUX-3, BGUS-2 1sf command, BGUX-4 lssf, SAC-9 LU, SAC-9 macro, BGTE-6 magnetic tape, SAC-10 for backups, AXE-Glossary magnetic tape drive, AXE-9 for backups, AXE-8 Magnetic Tape Operation Bit Settings, AXE-9 magtape (see magnetic tape), AXE-Glossary mail addresses, BGUX-7 command summary, BGUX-7 concepts, BGUX-7 current message, BGUX-7 > (current message pointer), BGUX-7 deleting messages, BGUX-7 help command, BGUX-7 reading, BGUX-7 saving to a file, BGUX-7 sending to users on other systems, BGUX-7 sending to users on your system, BGUX-7 mail account, SSEC-8 mailbox, BGUX-7

M

```
MAILCHECK shell variable, BGUS-5
mail command, BGUS-5
MAIL environment variable, BGUS-4
mail in an HP-UX cluster, SAC-12
MAILPATH shell variable, BGUS-5
mail routing, internetwork, SAC-11
mailx, SSEC-8
mailx and mail, SAT-2
main menu for SAM, SAT-1, AXE-9
maintaining a secure system, SSEC-2
major number, SAC-9, TUX-8
  definition, AXE-Glossary
maj_rad parameter, SBRR-4
makecdf, SSEC-8
makecdf(1M) command
  example, SAT-10
makecurrent, of fast alpha fainfo structure, FAFM-2
makecurrent, of the fast alpha fainfo structure, FAFM-2
make files, NLS-4
making
  a file system, SAT-6
  a recovery system, SAT-2, AXE-9
making a copy of a file with cp, BGUX-3
malloc(3), W9KD-A
managing
  devices, SAT-8
  groups, SAT-5
  peripherals, SAT-8
  users, SAT-5
  window manager, BGXW-5
managing a system with SAM, SAT-1, AXE-9
managing files, AXE-4
managing terminal window fonts, W9KD-4
managing the file system, SAT-6
man command, BGUX-5, AXE-A
man_fix, SAT-2
man-pages, accessing with the man command, BGUX-5
man pages, defined, UXW-1
manual boot, SAC-2
manual conventions, UXW-1, NLS-1
manual method for using a recovery system, AXE-9
```

manual overview, SAT-1 Manual Reference Pages, AXE-A map command, BGTE-6 masks, custom, UXW-5 Mass Storage Devices Worksheet, INSP-1 mass storage media setting up, AXE-9 master pty directory, W9KD-5, W9KD-A matching patterns, AXE-3 mattes, UXW-6 MAXBPG, SAC-8 max_depth parameter, SBRR-5 maxdsiz, SAC-7 maxdsiz kernel configuration parameter, CPG-3 maximize button, UXW-3 maximize menu selection, UXW-3 maximum display screen size, W9KD-2 maximum length of a window label, W9KD-4 maximum number of fonts per window, W9KD-4 maximum number of windows, W9KD-3 maximum shared memory address imposed by kernel, W9KD-A maximum size of shared memory segments, imposed by kernel, W9KD-A maximum windows, based on open file limit, W9KD-A maximum windows, based on open files per user, W9KD-A maximum windows, based on process limit, W9KD-A maximum windows, based on pty limit, W9KD-A maximum window size, W9KD-4 MAX_NON_LIGHT_INTENSITY definition, SBRR-7 max_rays parameter, SBRR-5 maxssiz, SAC-7 maxtsiz, SAC-7 maxuprc (maximum processes) kernel configuration parameter, W9KD-A max_variance parameter, SBRR-5 Mbyte or megabyte, AXE-Glossary MCALWAYS, FAFM-2 media initialization, SAT-6 mem, SSEC-8 memory, SAC-2, SSEC-8, AXE-1 Memory

```
shared, SBPX-4
memory allocation, optimizations performed on, CPG-3
Memory Configuration Wheel, INSP-3
memory locking, window manager, W9KD-5
memory management
  demand-load, SAC-7
  demand paging, SAC-7
  dynamic swap space, SAC-7
  local and remote swapping in HP-UX clusters, SAC-7
  memory management unit, SAC-7
  MMU, SAC-7
  pagedaemon, SAC-7
  page size, SAC-7
  physical memory, SAC-7
  primary swap space, SAC-7
  swapper, SAC-7
  swap space, SAC-7
  swap space requirements, SAC-7
memory-mapped input/output, CPG-3
memory, out of memory error during compilation, CPG-3
memory (shared) problems, W9KD-A
Memory usage, radiosity, SBRR-A
Memory usage (ray tracing), SBRR-A
memory windows, AXE-6
menu, AXE-3, AXE-6
Menu, W9KD-2
menus
  accelerators, UXW-6
  adding selections, BGXW-5
  appearance, UXW-6
  button, UXW-3
  creating, UXW-6
  default, UXW-6
  defined, UXW-2
  deleting selections, BGXW-5
  greyed out entries, UXW-6
  managing, UXW-6
  mnemonics, UXW-6
  root, BGXW-2, UXW-2
  selections, UXW-6
  system, BGXW-2
```

```
titles, UXW-6
  using, UXW-4
  window, UXW-2, UXW-6
  window manager, UXW-6
mesg command, BGUS-5
message catalog
  cookbook, NLS-2
  new, NLS-4
  overview, NLS-2
  using gencat, NLS-4
message catalogs, NLS-4
  automated creation of, NLS-4
  availability, NLS-3
  C locale, NLS-7
  closing, NLS-4
  compiling, NLS-6
  compiling, NLS-4
  conversion of existing programs for, NLS-4
  "cookbook", NLS-4, NLS-6
  creating, NLS-4
  default, NLS-4, NLS-7
  default error messages, NLS-4
  for HP-UX commands, NLS-6
  generating, NLS-4
  guidelines, NLS-4
  HP-UX, NLS-3
  installation, NLS-5
  installing, NLS-4, NLS-6
  location, NLS-5
  message numbers, NLS-4
  opening, NLS-4
  opening and closing, NLS-4
  programming example, NLS-4
  test directories, NLS-4
  testing, NLS-4
  translating, NLS-6
  updating, NLS-4
  using correct, NLS-4
  using revision code, NLS-4
message line, AXE-3
message numbers, NLS-4
```

```
messages, NLS-2
  conversion of existing programs for, NLS-4
  definition, AXE-Glossary
  in arrays, NLS-4
  in variables, NLS-4
  networking, AXE-3
  PAM, AXE-3
  printf/scanf, NLS-7
  retrieving, NLS-4
messages, error, UXW-5
messed up screen, AXE-6
metacharacter expansion, BGUS-2
metacharacters, BGUS-2
microflexible disk, AXE-Glossary
minfree, SAC-8
minfree, AXE-9
minimize, UXW-3
minimize button, UXW-3
minimize menu selection, UXW-3
minimum free space requirements, AXE-9
minimum window size, W9KD-4
minor number, SAC-9, TUX-2, TUX-8
  definition, AXE-Glossary
  digitizer, AXE-9
  plotter, AXE-9
Minor Numbers. See HP-UX Minor Numbers
min_rad parameter, SBRR-4
Miscellaneous Peripherals Worksheet, INSP-1
mixed cluster, SAC-12
mkdir, SSEC-7
mkdir command, BGUX-4
mkdir command, SAT-5
mkfontdir, UXW-4
mkfs, SSEC-8
mklp script, SAT-7
mknod, SSEC-7
mknod command, UXW-7
mknod system call, PORT-5
mksf, SAC-9
MLOCK, SAT-5
MMU, SAC-7
```

```
mnemonics, UXW-3, UXW-6
/mnt, SSEC-9
modaccess, SSEC-7
moddac, SSEC-3, SSEC-7
mode, SSEC-8, NLS-7
Mode, ICXW-3
  Combined, SBPX-3
  Image, SBPX-3
  Overlay, SBPX-3
  Stacked Screen, SBPX-3
Model
  Illumination, SBRR-Glossary
Modeling for global rendering, SBRR-3
Model segment, SBRR-4, SBRR-Glossary
Model segment traversal, SBRR-4
modem, TUX-3, AXE-9
  commands, TUX-3
  configuration, TUX-3
  settings, TUX-3
  transmit/receive indicators, TUX-3
  UUCP connections, TUX-3
Modem. See 37212A, 92205A/C
modem installation, SAC-10
modem, system access by, SSEC-8
mode parameter, SBPX-3, SBRR-5, SBRR-7
modes, AXE-5
Modes, operating, SBPX-3
modes, screen, UXW-7, UXW-9
modifying
  button bindings, UXW-6
  button click timing, UXW-6
  colors, UXW-5
  functions, UXW-6
  keyboard bindings, UXW-6
  login files, UXW-5
  menus, UXW-6
  modifier key bindings, UXW-7
  original files, UXW-5
  patterns, UXW-5
  preferences, UXW-7
  screen placement, UXW-6
```

shapes, UXW-5 window frame pixmap, UXW-6 window size, UXW-3 X0pointerkeys, UXW-7 X0screens, UXW-7 modifying files, AXE-5 Modifying output (radiosity), SBRR-7 modifying recalled commands C Shell, BGUS-3 modifying text, BGTE-3, AXE-5 monitoring a job, BGUS-3 monitoring a process, BGUS-3 monitoring tasks, AXE-6 monitoring the file system, SAT-6 monitor type, UXW-9 monochrome, BGXW-3 Monochrome, ICXW-3 monochrome display, UXW-6 months, display, NLS-2 more command, BGUX-3, BGUS-5 More Files message, AXE-3 motd, SAT-2 mounting a file system with /etc/checklist, SAT-6 file systems with checklist, SAT-6 or unmounting a file system, SAT-6 mounting/unmounting a file system in an HP-UX cluster, SAC-12 mount point, SSEC-9 mouse, UXW-2, AXE-3, AXE-6 alternatives to, UXW-2 button bindings, UXW-6 button locations, UXW-1 displaying root menu, UXW-3 location, BGXW-2 moving icons, UXW-3 moving windows, UXW-3 operations, UXW-6 pointer, BGXW-2 tracking, UXW-7 using, UXW-6

Mouse, ICXW-3. See also 46060A/B mouse button bindings, UXW-6 mouse button locations, BGXW-1 mouse buttons, UXW-4-5, UXW-7 Mouse buttons, ICXW-3 mouse functions, UXW-7 mouse, general description, W9KD-2 mouseless operation, UXW-2, UXW-7 mouse operations, UXW-3 mouse pointer and active window, UXW-3 move, BGSB-3 move2d, BGSB-3 move3d routine, SBRR-4 move box, AXE-6 move control box, W9KD-3 move control box, disabling, W9KD-5 Move icon pop-up menu operation, W9KD-3 move menu selection, UXW-3 Move pop-up menu option, W9KD-3 moving icons, UXW-3 images on paper, UXW-8 windows, UXW-3 moving a directory to a new file system, SAT-6 moving a file system to a new disk, AXE-9 moving a file system to another disk, SAT-6 moving an icon, BGXW-2 moving an icon interactively, W9KD-3 moving an icon via wmove(1), W9KD-4 moving a window, BGXW-2 moving a window move the move control box, W9KD-3 moving a window via the pop-up menu, W9KD-3 moving a window via wmove(1), W9KD-4 moving between run-levels, SAC-6 moving files, TUX-7, AXE-3, AXE-9 moving folders, AXE-3, AXE-9 moving icons, AXE-6 moving in folders, AXE-3 moving text, BGTE-4 moving the cursor, AXE-5 moving the file indicator, AXE-3

```
moving the pointer, AXE-6
moving the pointer (echo) via the keyboard, W9KD-2
moving the pointer (echo) via the mouse, W9KD-2
moving the pointer (echo) via the puck or stylus, W9KD-2
moving windows, AXE-6
msgctl, SSEC-7
msgget, SSEC-7
multi-byte
  macros, NLS-4
  processing, NLS-4
  program conversion, NLS-4
  programming with, NLS-4
multi-byte character codes, NLS-2
Multi-head, ICXW-3
multiple screen devices, UXW-7
Multiple Starbase opens, SBPX-4
multiple tasks, AXE-6
Multiplexer Interface. See 98642A, 98642A 4-Channel
multi-seat, UXW-3
Multi-seat, ICXW-3
multi-tasking, UXW-2
  HP-UX, UXW-2
multitasking, BGUS-3, AXE-3, AXE-6
multi-user mode, TUX-8
multi-user run level, SAT-4
multi-user windows, W9KD-5
multi-vendor
  communications, UXW-2
  networking, UXW-2
MUX, AXE-Glossary
mv command, BGUX-3
mwm, ICXW-2
mwm, UXW-3-4, UXW-6
mwm_bw entries in .Xdefaults, UXW-6
.mwmrc, BGXW-C
  changing, BGXW-5
myfile, creating, BGUX-3
```

```
$n, AXE-3
Ν
     n, AXE-5
     N, AXE-5
     naive windows, UXW-9
     named buffers, BGTE-4
     name, default for windows, W9KD-3
     name of first pty in pty set, W9KD-5
     name of pty set, W9KD-5, W9KD-A
     naming files, BGUX-3
     National Computer Security Center, SSEC-6
     native language, NLS-2
     Native language, ICXW-3
     native language input/output, UXW-7
     navigating SAM, SAT-1, AXE-9
     ncheck, SSEC-5, SSEC-8
     need to know, SSEC-8
     netdist daemon
       defined, SAT-3
       log file, SAT-3
       starting, SAT-3
       starting (errors), SAT-3
     netdist, defined, SAT-3
     netdist server
       adding filesets, SAT-3
       administering, SAT-3
       configuring, SAT-3, SAT-3
       configuring (errors), SAT-3
       defined, SAT-3
       log file, SAT-3
       shutting down, SAT-3
       updating from, SAT-3, SAT-3, SAT-3
       updating from (errors), SAT-3
     netunam, AXE-3
     netunam, SSEC-10
     network, SSEC-9
     network access, SSEC-8
     network administrator, SSEC-8
     network control files, permissions on, SSEC-5
     network device file, SAC-9
     network environment, ACLs in a, SSEC-8
     Network File Systems (NFS), SSEC-8
```

```
network file transfer, SAC-11
networking, SAC-11, AXE-3, AXE-Glossary
  transferring files, SAT-6
networking errors, AXE-3
networking HP-UX systems, SAT-2
networking messages, AXE-3
networking, multi-vendor, UXW-2
networking, trusted, SSEC-10
network lock manager, SAC-11
networks, SSEC-8
network services, SSEC-10
network special files, SSEC-5
Network transparency, SBPX-2, SBPX-Glossary
NewColorMap program, SBPX-3
newgrp, SSEC-7
news, SAT-2
news command, BGUS-5
new window, UXW-3, UXW-5
(Next), AXE-2
/nfs, SSEC-5
NFS, SSEC-8, SSEC-10, AXE-9
NFS/9000, SAC-11
NFS environment, SSEC-10
  security concerns, SSEC-10
NFT, SAC-11
nice command, BGUS-3
nine-track tape drive (see magnetic tape), SAC-9
nl_asctime library routine, NLS-4
nl_ctype(3C) library routine, NLS-4
nl_cxtime library routine, NLS-4
nl_fprintf library routine, NLS-4
NL I/O, ICXW-3
NLIO, NLS-5
NLIO system, NLS-5
nljust, NLS-7
nl_printf library routine, NLS-4
NLS
  aspects of, NLS-2
  definition, NLS-2
  support, NLS-2
NLS Coordinator, NLS-3, NLS-5
```

tasks, NLS-3 translation activities, NLS-3 NL_SETD, NLS-4 nlsinfo, NLS-3, NLS-7 NLSPATH, NLS-4, NLS-7 NLSPATH, NLS-3 NLSPATH environment variable, NLS-4 nl_strncmp, NLS-4 no border, W9KD-2, W9KD-4 no border, setting via wborder(1), W9KD-4 noclobber shell variable, BGUS-5 node, UXW-2 nodename, BGUX-7 nodes, SSEC-5 nohup(1), W9KD-3 nohup(1), relation to wmstop(1), W9KD-4 nohup command, BGUS-3 NO_ITEM_BUFFER definition, SBRR-5 NO_LIGHT definition, SBRR-4 non-ASCII string collation, NLS-2 non-clients, UXW-2, UXW-4 non-Latin mode, NLS-7 non return to zero immediate, SAC-10 non-selectable items, pop-up menu, W9KD-2 non-selected window, pop-up menu, W9KD-2 nonsequential processing, AXE-3, AXE-Glossary non-windows version of PAM, AXE-3 NO_RES definition, SBRR-4 normal, AXE-6 normal border, W9KD-2, W9KD-4 normal border, setting via wborder(1), W9KD-4 normalizing, UXW-3 Normal pop-up menu operation, W9KD-3 normal representation, W9KD-2, W9KD-4 normal representation, changing to from iconic, W9KD-4 normal representation, interactively changing an icon to, W9KD-NO_SIDE_EFFECTS directive, CPG-3 notation, access control list (ACL), SSEC-8 notify shell variable, BGUS-5 npty kernel configuration parameter, W9KD-A

NS-ARPA, AXE-9 null access control lists (ACLs), SSEC-8 null border, W9KD-2, W9KD-4 null border, setting via wborder(1), W9KD-4 numbering files, AXE-5 number option, BGTE-6 number representation, NLS-2 numeric formatting, NLS-2

0 o, AXE-5 O, AXE-5 +01 compiler option, CPG-3 +02 compiler option, CPG-3 Object code compatibility, SBPX-8 object file compatibility, CPG-3 objects, SSEC-6 close, SSEC-7 creation, SSEC-7 deletion, SSEC-7 introduction or deletion, SSEC-7 isolating, SSEC-6 open, SSEC-7 occluded, topping a window when it is, W9KD-5 occluded, topping a window when it is not, W9KD-5 -0 compiler option, CPG-3 "Office Scene" image (radiosity), SBRR-2 offsite storage, SSEC-9 ON definition, SBRR-4 on-line documentation, AXE-A on-line HP-UX Reference entries, BGUX-5 open, SSEC-7 open a folder, AXE-3 open file limit, W9KD-A open file limit, examples, W9KD-A open file limit, getting around, W9KD-A open file limit, per user, W9KD-A open files per process, W9KD-A open files (see processes), SAC-5 open folder, AXE-3 opening blank lines, BGTE-3 opening message catalogs, NLS-4

```
openlog subroutine, PORT-5
open_segment routine, SBRR-7
open system, SSEC-6
Operating
  Environments, SBPX-2
  Modes, SBPX-3
  Modes (X11 Server), SBPX-4
operating modes, UXW-9
operating system, BGUS-2, SSEC-6
  creating, AXE-9
  general description, AXE-9, AXE-Glossary
  protecting, SSEC-5
  protections, SSEC-9
  risks, SSEC-9
operating system, HP-UX, UXW-2
operating system parameters, SAT-A
  argdevnblks, SAC-7
  configuring, SAT-9
  dmmax, SAC-7, SAT-A
  dmmin, SAC-7, SAT-A
  dmshm, SAT-A
  dmtext, SAT-A
  HP-UX cluster, SAC-12
  maxdsiz, SAC-7, SAT-A
  maxssiz, SAC-7, SAT-A
  maxtsiz, SAC-7, SAT-A
  nbuf, SAC-8
  ntext, SAC-7
  reference pages, SAT-A
  shmmax, SAT-A
  shmmaxaddr, SAC-7
  shmseg, SAC-7
  unlockable_mem, SAC-7
operator, SSEC-6
operator interfaces, AXE-3
Optical Autochanger. See 20GB/A
optical disk
  media initialization, SAT-6
optical disk backup and restore, SAT-11
Optical Disk Drives. See 650/A
optimization, PORT-4, CPG-3
```

```
assumptions, CPG-3
  global variables, CPG-3
  problems encountered during, CPG-3
  troubleshooting, CPG-3
  volatile, CPG-2
  warning messages, CPG-3
optimization compiler options, CPG-3
optimization levels, controlling via OPT_LEVEL, CPG-3
optimization levels overview, CPG-3
optimization of character generation, FAFM-3
optimizations
  transformations, CPG-3
optimization transformations
  coloring register allocation, CPG-3
  common subexpression elimination, CPG-3
  constant folding, CPG-3
  constant propagation, CPG-3
  copy propagation, CPG-3
  dead code elimination, CPG-3
  dead store elimination, CPG-3
  loop unrolling, CPG-3
  peephole optimization, CPG-3
OPTIMIZE directive, CPG-3
optimizing font manager writes, FAFM-3
optimizing move operations, W9KD-5
optional file sets, AXE-9
Optional Kernel Drivers (table), AXE-9
optional parameters, AXE-3
optional products, AXE-9
options, UXW-7
  client, BGXW-4
options, command, BGUX-5
options, editor, BGTE-3, BGTE-6
OPT_LEVEL directive, CPG-3
OR, SSEC-8
order parameter, SBRR-4
organizing files, AXE-4
organizing files in directories, BGUX-4
organizing multiple tasks, AXE-6
origin, display screen, W9KD-2
orphaned files, TUX-6
```

orphaned process group, SAC-5 OSF/Motif Window Manager. See mwm OSI Transport Services, SAC-11 OTS/800, SAC-11 out of memory error during compilation, CPG-3 output, AXE-3, AXE-Glossary Output Of global renderings, SBRR-3 Radiosity, SBRR-7 Radiosity images, SBRR-7 Ray traced images, SBRR-7 Techniques, radiosity, SBRR-7 Techniques, ray tracing, SBRR-7 Using USR_TMP_SBRR, SBRR-7 output_fildes parameter, SBRR-7 output_scene routine, SBRR-3, SBRR-7 Output to a segment (radiosity), SBRR-7 output_type parameter, SBRR-7 +OV compiler option, CPG-3 overflow, SSEC-7 overlay mode, UXW-7 Overlay mode, ICXW-3, SBPX-3-4, SBPX-Glossary overlay planes, UXW-9, W9KD-B overview of manual, SAT-1 overwriting files, BGTE-3 owner, AXE-3 ownership, TUX-6 p, AXE-5 P, AXE-5 pack, SSEC-8 PackIcons, UXW-6 padding bytes, CPG-2

p, AXE-5
P, AXE-5
pack, SSEC-8
PackIcons, UXW-6
padding bytes, CPG-2
pagedaemon, SAC-7
page size, virtual memory, SAC-7
paging, SAC-7
PaintJet, UXW-8
PaintJet Printer. See 3630A
PAM
Autost file, AXE-3
chmod, AXE-3

P

command area, AXE-3 command line, AXE-3 command line editing, AXE-3 copying files, AXE-3 creating files, AXE-3 creating folders, AXE-3 data file listing, AXE-3 deleting files, AXE-3 deleting folders, AXE-3 environment files, AXE-3 execution, AXE-3 exiting, AXE-3 file permissions listing, AXE-3 file printing, AXE-3 folder area, AXE-3 folder closing, AXE-3 folder listing, AXE-3 folder opening, AXE-3 folder reread, AXE-3 function keys, AXE-3 general description, AXE-1, AXE-3, AXE-Glossary message line, AXE-3 messages, AXE-3 moving files, AXE-3 moving folders, AXE-3 non-windows version, AXE-3 operations, AXE-3 program listing, AXE-3 renaming files, AXE-3 renaming folders, AXE-3 running programs, AXE-3 script files, AXE-3 starting PAM, AXE-3 user menu, AXE-3 windows version, AXE-3 PAM (Personal Applications Manager), BGUX-2 PAM shell, BGUX-1 panic message, TUX-9 panning a graphics window, W9KD-3 panning a graphics window via elevators, W9KD-3 Parallel processing, SBPX-2

parameter, AXE-3, AXE-Glossary **Parameter** attr. SBRR-4 compute_type, SBRR-6 coordinate_type, SBRR-4 cull_mode, SBRR-5 dirx, SBRR-4 diry, SBRR-4 dirz, SBRR-4 display, SBRR-7 driver, SBPX-3 gamma, SBRR-7 height, SBRR-4 index_of_refraction, SBRR-4 item_buffer_mode, SBRR-5 kind, SBPX-3 l_rad, SBRR-4 maj_rad, SBRR-4 max_depth, SBRR-5 max_rays, SBRR-5 max_variance, SBRR-5 min_rad, SBRR-4 mode, SBPX-3, SBRR-5, SBRR-7 order, SBRR-4 output_fildes, SBRR-7 output_type, SBRR-7 path, SBPX-3 percent_remaining, SBRR-6 prune_mode, SBRR-5 quality, SBRR-4 rad, SBRR-4 ref_intensity, SBRR-7 reflectance, SBRR-4 refx, SBRR-4 refy, SBRR-4 refz, SBRR-4 root_seg, SBRR-5 scene_id, SBRR-3 screen_on, SBRR-5 transmittance, SBRR-4 tree_cutoff, SBRR-5

type, SBRR-4 u_rad, SBRR-4 parameter lists across HP-UX, PORT-4 **Parameters** For radiosity output, SBRR-7 parameters, auditing, SSEC-2 parameter substitution, BGUS-4 parent directory, BGUX-4 parent process, SAC-5 parent process ID, SAC-5 parent window, UXW-4 parity, NLS-3 partial_arc routine, SBRR-4 partial_ellipse routine, SBRR-4 partial_polygon2d routine, SBRR-4 partial_polygon3d routine, SBRR-4 Partion, ICXW-2 partition definition, AXE-Glossary removing, AXE-9 parts of window, W9KD-2 Pascal among versions of HP-UX, PORT-4 calls to C, PORT-4 calls to other languages, PORT-4 command line options, PORT-4 control constructs, PORT-4 data type alignments, PORT-4 data types, PORT-4 data type sizes, PORT-4 differences in features, PORT-4 inline compiler options, PORT-4 I/O, PORT-4 miscellaneous items, PORT-4 program structure, PORT-4 types, PORT-4 Pascal language on VMS, PORT-2 Pascal workstation absolute addressing, PORT-6 assembly language conversion, PORT-6 compiler option differences, PORT-6

```
differences in features, PORT-6
  file naming, PORT-6
  graphics, PORT-6
  heap management, PORT-6
  input, PORT-6
  introduction, PORT-6
  lastpos, PORT-6
  library differences, PORT-6
  linepos, PORT-6
  module names, PORT-6
  real variables, PORT-6
  $SEARCH$ File Names, PORT-6
  terminal I/O, PORT-6
passing a command to a new window, W9KD-4
passing commands to wmstart(1), W9KD-4
passwd, SSEC-7, SAT-2
passwd command, BGUX-2, AXE-2
passwd file, SAT-5
password, BGUX-2, SAC-4
  changing your password, AXE-2
  criteria, SSEC-8
  entering during login, AXE-2
  function, AXE-2, AXE-Glossary
  problems, AXE-2
  protecting, BGUX-8
  rules for choosing a new, BGUX-2, BGUX-8
  security, BGUX-8
  setting or changing your, BGUX-2
  unexpected queries, SSEC-6
password aging, SAC-4, SSEC-8
password database, SSEC-8
password encryption, SSEC-8
password entries, get, SSEC-8
password field, encrypted, SSEC-8
password file, SSEC-8
password file fields, SSEC-8
password files, SSEC-6
password integrity, SSEC-8
password, rules for choosing a new, BGUX-2
passwords, SSEC-5
  RFA, SSEC-10
```

unencrypted, SSEC-10 password security, SSEC-8, SAT-2 password system, SSEC-6 password, use of, UXW-1 pasting text, UXW-4 path, AXE-3, AXE-Glossary PATH, SAC-13, SSEC-6, SSEC-8 PATH environment variable, BGUS-4 PATH environment variable, BGTE-1, AXE-3, AXE-7 path name, TUX-B, AXE-Glossary pathname completion, BGUS-2 pathname generation, BGUS-2 pathname listing, BGUS-2 pathnames, BGUX-4 path parameter, SBPX-3 path shell variable, BGUS-5 pattern matching, AXE-3 patterns, UXW-5 pattern searches, BGTE-5 pause box, AXE-6 pause control box, W9KD-3 pause control box, disabling, W9KD-5 pausing output to a terminal window via (Stop), W9KD-2 pausing terminal (term0) window output, W9KD-3 pausing terminal window output via (Stop) key, W9KD-3 pausing window output, AXE-6 PCHARADV, replaced by WCHARADV, NLS-4 PCHAR, replaced by WCHAR, NLS-4 PDC (Processor Dependent Code), TUX-5 PE, AXE-Glossarv peephole optimization, CPG-3 pen, AXE-6 penetration, SSEC-6 penetrator, SSEC-9 pen, graphics tablet, W9KD-2 percentage and absolute graphics tablet coordinates, combining. W9KD-5 percentage coordinates for graphics tablet scaling, W9KD-5 percent_remaining parameter, SBRR-6 Performance considerations (radiosity), SBRR-A

Performance considerations, ray tracing, SBRR-A

```
perimeter_color_index, BGSB-8
peripheral, AXE-Glossary
peripheral configuration, NLS-5
peripherals, NLS-5
  connecting, SAC-9
  description, SAC-9
  managing them, SAT-8
  overview of managing them, SAT-8
permission and execution security, SAT-2
permission bits, SSEC-8
  criteria for, SSEC-8
permission modes, SSEC-9
permissions, BGUX-3-4, BGUX-8, BGUX-A, SSEC-4, TUX-3,
    TUX-6, AXE-3-4, AXE-Glossary
  directories, BGUX-4, BGUX-8
  files, BGUX-8
  listing file permissions with 11, BGUX-3, BGUX-8
  listing with 11, BGUX-A
  listing with lsacl, BGUX-A
  setting default permissions with umask, BGUX-8
permissions, file, SSEC-8
permissions, overly liberal, SSEC-5
personal copy of wmstart(1), W9KD-5
phantom record, SAC-10
phase encoding, SAC-10
phonetic order, NLS-7
Phong shading, SBRR-Glossary
physical memory, SAC-7
physical security, SAT-2
picking a window, AXE-6
picture, icon, W9KD-2
PID, UXW-4, SAC-5
pipe, BGUX-6, SSEC-7, AXE-3, AXE-Glossary
pipeline, BGUX-6
pipes, SAC-8
pixels, UXW-3
pixmaps, UXW-6
Pixmaps, SBPX-4
place, AXE-5
placement
  icons, UXW-6
```

```
of icons, UXW-3
  specification, UXW-4
  window, UXW-6
placement, clients, UXW-4
placement of icons, changing, W9KD-5
placing a window on the bottom of the display stack, W9KD-4
planes
  image, overlay, UXW-9
planes blinking, warning, W9KD-A
planes displayed, warning, W9KD-A
Planetary Gears image (radiosity), SBRR-2
"Planet Gears" image (ray tracing), SBRR-2
planning backup and restore, SAT-11
planning media initialization, SAT-6
planning system resources, SAT-2
plotter
  device file, AXE-9
  minor number, AXE-9
Plotter (HP-IB Interface), INSP-8. See also 7440A (Option
    002), 7470A (Option 002), 7475A (Option 002), 7550A,
    7570A (with 17570A), 7580B, 7585B, 7586B, 7595A, 7596A,
    9872C/T
Plotters/Graphics Devices Worksheet, INSP-1
pointer, CPG-2
pointer, BGXW-2, UXW-2, W9KD-2, AXE-3, AXE-6
  and keyboard input, UXW-3
  direction keys, UXW-7
  specifying keys, UXW-7
Pointer, ICXW-3
pointer focus policy, UXW-6
pointer location, BGXW-2
pointer manipulation, character, NLS-4
pointer movement, AXE-6
pointer, moving via the keyboard, W9KD-2
pointer, moving via the mouse, W9KD-2
pointer, moving via the puck, W9KD-2
pointer shapes, BGXW-2
pointer shapes over different screen areas, W9KD-2
pointing device, UXW-2
Point light, SBRR-Glossary
Point lights, SBRR-3
```

```
polygon2d, BGSB-4
polygon2d routine, SBRR-4
polygon3d routine, SBRR-4, SBRR-7
Polygon back faces, SBRR-4
polygons, BGSB-4
polyline2d, BGSB-4
polyline2d
  coordinate list, BGSB-4
polyline3d routine, SBRR-4
polylines, BGSB-4
pop-menu options
  Top, W9KD-3
pop_state routine, SBRR-7
pop-up menu, AXE-6
pop-up menu abort, disable when pointer moves outside menu
    boundary, W9KD-5
pop-up menu, aborting, W9KD-2
pop-up menu, activating, W9KD-2
pop-up menu, disabling over desk top dither pattern, W9KD-5
pop-up menu, disabling over window borders, W9KD-5
pop-up menu, exiting from, W9KD-2
pop-up menu font, effect on swap space requirements, W9KD-A
pop-up menu, font used in, W9KD-5
pop-up menu format, W9KD-2
pop-up menu for non-selected window, W9KD-2
pop-up menu for selected window, W9KD-2
pop-up menu global items, W9KD-2
pop-up menu, invoking for an icon, W9KD-2
pop-up menu local items, W9KD-2
pop-up menu name, W9KD-2
pop-up menu non-selectable items, W9KD-2
pop-up menu operations
  Bottom, W9KD-3
  Icon, W9KD-3
  Move icon, W9KD-3
  Normal, W9KD-3
  Repaint, W9KD-3
pop-up menu options
  Create Window, W9KD-3, W9KD-5
  Destroy, W9KD-3
  Exit WS, W9KD-3
```

Move, W9KD-3 Save, W9KD-3 Select, W9KD-3 Size, W9KD-3 pop-up menu selectable items, W9KD-2 pop-up menu, selecting items, W9KD-2 pop-up menus, general description, W9KD-2 pop-up menu timeout, W9KD-2 portability across HP-UX systems, PORT-4 aids, PORT-2 a philosophy, PORT-1 areas of interest, PORT-1 BSD4.3 to HP-UX, PORT-3 compiler directives, PORT-1 differences in VMS to HP-UX, PORT-2 guidelines, PORT-1 inhibiting factors, PORT-1 manual contents, PORT-1 Series 300 recommendations, PORT-1 standards for HP-UX, PORT-1 Portable. See Terminals positional parameters, AXE-3 positioning clients, BGXW-4 positioning clients, UXW-5 positioning the cursor, BGTE-3 position resources, UXW-6 power failure, SSEC-9, AXE-7 powering down the computer, AXE-7 powering up the system, SAC-2, AXE-7 PPID, SAC-5 pragma, CPG-3 precedence, icon images, UXW-6 preen, AXE-8 preening mode, TUX-B preen mode, SAC-2 Prerequisites, ICXW-2 prerequisite skills, SAT-1, AXE-8 pressing, UXW-3 (Prev), AXE-2

```
prevent special characters, AXE-3
previous screens, AXE-3
primary boot path, SAC-2, TUX-5
primary inode, SAC-8
primary log file, SSEC-2-3, SSEC-7
primary superblock, SAC-2, SAC-8
primary swap space, SAC-7
prime time, SAC-13
printer
  LP spooler, AXE-9
  LP spooler commands, AXE-9
  RS232, AXE-9
  setting up, AXE-9
          See 2563B, 2564B, 2566B, 2608S, 2671A, 2671G,
Printer.
    2673A, 2932A, 2934A
printer, interface, SAC-9
Printer, LaserJet. See 2686A/D
Printer, LaserJet 2000. See 2684
Printer, LaserJet-II. See 33440A
Printer, PaintJet. See 3630A
Printer, QuietJet. See 2228A
Printer, QuietJet Plus. See 2227A, 2227B
printers, TUX-2
  device files, TUX-2
  hardware address of, TUX-2
  problems with, TUX-2
  won't print, TUX-2
Printers Worksheet, INSP-1
Printer, ThinkJet. See HP 2225A
printf, BGSB-2, NLS-4
  conversion specification, NLS-7
  order of arguments, NLS-7
printf, SSEC-5
printf library routine, NLS-4
printing, BGUX-9
  a file's contents with 1p, BGUX-3
  canceling a print job, BGUX-9
  color images, UXW-8
  finding out the status of a print job, BGUX-9
  key map, UXW-7
  screen dumps, UXW-8
```

```
sending files to an alternate printer, BGUX-9
printing files, SAT-7, AXE-3
printing font, AXE-1
print jobs
  restarting from the beginning, TUX-2
  restarting from where it stopped, TUX-2
printouts, SSEC-6
print requests
  canceling, TUX-2
  moving, TUX-2
  priority of, TUX-2
  request-id, TUX-2
  routing of, TUX-2
  won't print, TUX-2
print requests, moving, AXE-9
print servers, defined, UXW-2
privgrp, SSEC-7
privileged groups, SAT-5
privileged programs, SSEC-6, SSEC-8
privileges, SSEC-8
problem definition, TUX-1
  file system problems, TUX-6
  printer won't print, TUX-2
  things to consider, TUX-1
  what's different, TUX-1
problem isolation, TUX-1
  printer won't print, TUX-2
  UUCP problems, TUX-3
problems, AXE-3
  booting from LAN, TUX-5
  booting wrong kernel, TUX-5
  can't find kernel, TUX-5
  CDF Mix-ups, TUX-4
  cluster client won't boot, TUX-4
  cluster problems, TUX-4
  cluster server won't boot, TUX-4
  disk space shortages, TUX-7
  file permissions, TUX-3
  identifying possible causes, TUX-1
  mounting file systems, TUX-6
  preparing for, TUX-1
```

```
preventive measures, TUX-1
  starting X, BGXW-2
  system boot-up, TUX-5, TUX-9
  testing possible causes, TUX-1
  unmounting file systems, TUX-6, TUX-6
  UUCP configuration, TUX-3
  with hardware, TUX-3, TUX-9
  with LAN, TUX-4
  with printers, TUX-6
  with terminals, TUX-8
problems in vi, AXE-5
problems with shared memory, W9KD-A
process, SSEC-7, AXE-Glossary
  definition, BGUX-6, BGUS-3
process accounting, SAC-13
process environment, relation to environment variables, W9KD-
    5
processes, UXW-2, UXW-4
  associated w/terminals, TUX-8
  automating them, SAT-6
  background process group, SAC-5
  controlling process, SAC-5
  controlling terminal, SAC-5
  creation, SAC-5
  dmmax, SAT-A
  dmmin, SAT-A
  dmshm, SAT-A
  dmtext, SAT-A
  foreground process group, SAC-5
  ID, SAC-5
  maxdsiz, SAT-A
  maxtsiz, SAT-A
  monitoring, BGUS-3
  nproc, SAT-A
  open files, SAC-5
  orphaned process group, SAC-5
  ownership, SAC-5
  parent process ID, SAC-5
  PID, SAC-5
  PPID, SAC-5
  process group ID, SAC-5
```

```
process group leader, SAC-5
  process group lifetime, SAC-5
  process groups, SAC-5
 process ID, SAC-5
  process IDs in an HP-UX cluster, SAC-12
 sessions, SAC-5
  shmmax, SAT-A
  terminal affiliation, SAC-5
  terminating, BGUS-3, TUX-6, TUX-8
  termination, SAC-5
  with files open, TUX-6
Processes, ICXW-4
process group ID, SAC-5
process group leader, SAC-5
process group lifetime, SAC-5
process ID, UXW-4
process identifier (PID), BGUX-6, BGUS-3
processing, UXW-1
  background, UXW-2
  local, UXW-2
  remote, UXW-2
processing files at the same time, AXE-3
processing files in order, AXE-3
process-intensive applications, UXW-2
process limit, W9KD-A
process limit, getting around, W9KD-A
process locking, SAC-7
Processor Type, SAT-10
process size, SAT-A
process stack space, computing, W9KD-A
process usage by window system, W9KD-A
process usage, determining via ps(1), W9KD-A
process usage, examples, W9KD-A
.profile, BGUX-3, W9KD-4, NLS-3, NLS-5
.profile, UXW-5, SSEC-8, SAT-2, AXE-9
profile, SAT-2
.profile, executing in a newly created window, W9KD-4
.profile, executing wmstart(1) from, W9KD-4
.profile script, BGUS-4-5, SAC-4
.profile, setting environment variables in, W9KD-5
program, BGUX-6, BGUS-3
```

```
Cursor.c, FAFM-2
  definition, AXE-Glossary
  Fainfo, FAFM-2
  Fonts.c, FAFM-2
  listing, AXE-3
  running, AXE-3
  Structure, FAFM-2
  type of file, AXE-4
Program
  Development, SBPX-8
  NewColorMap, SBPX-3
  rad_demo1.c, SBRR-3
  ray_demo1.c, SBRR-3
program Clear.c, FAFM-2
program FM_clipping.c, FAFM-3
program FM_Colors.c, FAFM-3
program FM_Direction.c, FAFM-3
program FM_length.c, FAFM-3
program FM_Struct.c, FAFM-3
program Font_size.c, FAFM-3
program initialization
  standard, NLS-7
programmer, SSEC-6, NLS-2
Programming environment, ICXW-B
programming environment, AXE-Glossary
programming guidelines, SSEC-9
programming language, using shells as, BGUS-2
programming the X Window System, UXW-1
programs
  conversion of existing, NLS-4
  remote and local, UXW-2
  running, UXW-2, UXW-4
  setting colors, UXW-4
  starting, BGXW-4
  stopping, UXW-3
  terminal-based, UXW-2
  window-based, UXW-2
  window-smart, UXW-2
program Style.c, FAFM-3
Progressive output (radiosity), SBRR-7
"Progressive Radiosity After 1 Step" figure, SBRR-6
```

```
"Progressive Radiosity After 2 Steps" figure, SBRR-6
"Progressive Radiosity After 7 Steps" figure, SBRR-6
Progressive refinement, SBRR-1, SBRR-6, SBRR-Glossary
prompt, BGXW-2
prompt, command, BGUX-2
prompt shell variable, BGUS-5
proportional, of font manager escapecodes structure, FAFM-
    3
protecting accounts with /etc/ftpusers, SSEC-10
protecting directories with chmod, BGUX-8
protecting directories with umask, BGUX-8
protecting files, AXE-3
protecting files with chmod, BGUX-8
protecting files with umask, BGUX-8
protecting system files, SSEC-5
protecting your files, SSEC-4
protecting your files and directories, BGUX-8
protecting your operating system, SSEC-5
protecting your password, BGUX-8
protection, AXE-9
protocol, communication, SAC-2, AXE-7
protocol, fast alpha, FAFM-2
protocols, SSEC-5
prune_mode parameter, SBRR-5
PRUNE_NORMAL definition, SBRR-5
Pruning, SBRR-5
ps, SSEC-8
PS1 environment variable and shell variable, BGUS-4
ps(1), using to determine window process usage, W9KD-A
ps command, BGUS-3
pseudo-accounts, SSEC-8
pseudo-terminal (pty) limit, W9KD-A
pseudo-terminal (pty) special files, W9KD-5
pseudo-tty device files, SAC-9
ptrace, SSEC-7
ptrace system call, PORT-5
pty, ICXW-2
pty(7), W9KD-5
pty cache, W9KD-5, W9KD-A
pty cache, default size of, W9KD-A
pty cache, size of, W9KD-5
```

```
pty environment variables, W9KD-A
pty limit, W9KD-A
pty limit, examples of increasing the limit, W9KD-A
pty limit, getting around, W9KD-A
pty limit imposed by the kernel, W9KD-A
pty limit, increasing, W9KD-A
pty master directory, W9KD-5, W9KD-A
pty naming conventions, W9KD-A
pty set, W9KD-5, W9KD-A
pty set, size of, W9KD-5, W9KD-A
pty set, starting pty, W9KD-5
pty set, starting pty name, W9KD-A
pty slave directory, W9KD-5, W9KD-A
pty special file, W9KD-5
pty special files, W9KD-5
pty usage, window system, W9KD-A
public, AXE-4
public directories, SSEC-6
public files, SSEC-6
puck, AXE-6
puck, graphics tablet, W9KD-2
puck select button, W9KD-2
pulldown menu, UXW-3
purging files, AXE-4, AXE-Glossary
push_state routine, SBRR-7
put command, BGTE-4
putenv, NLS-7
putpwent, SSEC-8
  put password entries, SSEC-8
putspwent, SSEC-8
  put secure password entries, SSEC-8
putting a window on the bottom of the stack interactively,
    W9KD-3
pwck, SSEC-7
pwd command, BGUX-4
pyramid analogy with directories, BGUX-4
```

Q:q!, BGTE-2-3, AXE-5
Quadrature Port. See 46094A
quadrilateral_mesh routine, SBRR-4
qualifiers, const and volatile, CPG-2
quality, of font manager escapecodes structure, FAFM-3
quality parameter, SBRR-4
quiescent state, SAC-8
QuietJet Plus Printer. See 2227A, 2227B
QuietJet Printer. See 2228A
quitting vi, BGTE-2
quitting X11, BGXW-2
quit vi, AXE-5
\$quote directive, NLS-4
quoting, AXE-3

R

r, AXE-5 R, AXE-5 R2 toolkit, ICXW-2, ICXW-B R3 toolkit, ICXW-2, ICXW-B RAD_AMBIENT definition, SBRR-5 rad_demo1.c program, SBRR-3 "'rad_demo1" image, SBRR-3 "rad_demo1' with an Area Light" image, SBRR-4 Radiosity, SBRR-Glossary Algorithm, SBRR-6 Area lights, SBRR-4 Computation, SBRR-6 Controlling ambient light, SBRR-5 Control parameters, SBRR-5 Data extraction, SBRR-6 Depth cueing, SBRR-4 First solution step, SBRR-6 Form factors, SBRR-6 Image Refinement, SBRR-6 Image scaling, SBRR-5, SBRR-7 Light sources, SBRR-6 Memory usage, SBRR-A Output, SBRR-7 Output modification, SBRR-7 Output techniques, SBRR-7 Output to a segment, SBRR-7

Performance, SBRR-A Progressive output, SBRR-7 Progressive refinement, SBRR-1, SBRR-6 References, SBRR-6 Segment traversal, SBRR-6 Shading resolution, SBRR-4, SBRR-6 Shadow control, SBRR-4 Storing images, SBRR-7 Surface illumination quality, SBRR-4 Troubleshooting, SBRR-B Viewing parameters, SBRR-7 "Walk-through", SBRR-7 rad parameter, SBRR-4 raising a window, UXW-3 raster non-retained on create, W9KD-4 raster, retained, W9KD-4 raster size, W9KD-4 raster size, relation to window size, W9KD-4 raster size, specifying on create, W9KD-4 Raster text, SBPX-5, SBPX-Glossary rationale for using environment variables, W9KD-5 rationale for using icons, W9KD-2 rationale for using windows, W9KD-2 raw devices, SAC-9 raw mode, UXW-9, AXE-Glossary Raw mode, SBPX-1-2, SBPX-4, SBPX-Glossary Raw mode operation, SBPX-Glossary ray_demo1.c program, SBRR-3 "rav_demo1" image, SBRR-3 "ray_demo1' Image With Reflection and Refraction" image, SBRR-4 "'ray_demo1' Image With Reflection Effects Added" image, SBRR-4 Ray tracing, SBRR-Glossary Algorithm, SBRR-6 Anti-aliasing, SBRR-5, SBRR-7 Computation, SBRR-6 Control parameters, SBRR-5 Data extraction, SBRR-6 Depth cueing, SBRR-4 Efficiency, SBRR-6

Item buffering, SBRR-5 Memory usage, SBRR-A Output, SBRR-7 Output redirection, SBRR-5 Output techniques, SBRR-7 Performance, SBRR-A Ray trees, SBRR-5 References, SBRR-6 Reflections, SBRR-6 Segment traversal, SBRR-6 Shadow control, SBRR-4 Shadows, SBRR-6 Storing images, SBRR-7 Storing results, SBRR-6 Surface attributes, SBRR-4 Transparency, SBRR-6 Troubleshooting, SBRR-B Use of display, SBRR-6 Viewports, SBRR-7 "Ray-Tree Parameters" figure, SBRR-5 rbootd, TUX-4 rc, ICXW-2 rc, SAT-2 RCS, SSEC-8 reactivating a user, SAT-5 reading file listings, AXE-3 reading mail, BGUX-7 read permission, SAC-8 read permission for directories, BGUX-4, BGUX-8 read permission for files, BGUX-3, BGUX-8 read, write permissions, SSEC-5 real group ID, SAC-5 real mem, SAC-7 real-time priority for window manager, W9KD-5 real user ID, SAC-5 reboot, SSEC-5, SSEC-7 reboot command, SAC-3 rebooting the system, SAC-3 reboot system call, PORT-5 recalling commands C Shell, BGUS-3

```
in emacs line-editing command set, BGUS-3
  in vi line-editing command set, BGUS-3
  Korn Shell, BGUS-3
reconfig command, SAT-9
reconfiguring the interactive user interface, W9KD-5
reconfiguring the kernel, SAT-9, AXE-9
record, audit, SSEC-7
record keeping, TUX-1
  benefits, TUX-1
  HP-UX version number, TUX-1
  online vs. notebook, TUX-1
  tools, TUX-1
  what information, TUX-1
recoverable, W9KD-4
recovering lost data, AXE-8
recovery, SSEC-9
recovery from a power failure, AXE-7
recovery of data, SSEC-9
recovery system, SSEC-9, SAT-2, AXE-9
  booting, AXE-7
  final alternatives, SAT-2, AXE-9
  for HP-UX, SAT-2, AXE-9
  manual method, AXE-9
  procedure, SAT-2
  the work in a shell option, SAT-2, AXE-9
  what if it does not work, SAT-2, AXE-9
rectangle, BGSB-5
rectangle routine, SBRR-4
rectangles, BGSB-5
rectangles, fast alpha, FAFM-2
recursion, BGUS-3
recursive function, BGUS-3
redirection
  appending output, BGUX-6
  input and output, AXE-3, AXE-Glossary
  standard error, BGUX-6
  standard input, BGUX-6
  standard output, BGUX-6
  symbols, AXE-3
  syntax, AXE-3
redrawing the screen, UXW-6
```

redraw windows, AXE-6 re-executing commands, AXE-3 C Shell, BGUS-3 Korn Shell, BGUS-3 reference books, UXW-1 reference counts, TUX-B reference information, UXW-1 references, BGSB-1 referencing variables, BGUS-4 Refinement Progressive, SBRR-Glossary Refinement steps, radiosity, SBRR-6 refining control, UXW-6 REF_INTENSITY definition, SBRR-7 ref_intensity parameter, SBRR-7 Reflectance, SBRR-5 reflectance parameter, SBRR-4 Reflection, in ray tracing, SBRR-6 refresh, UXW-3 refresh_segment routine, SBRR-4, SBRR-6 refx parameter, SBRR-4 refy parameter, SBRR-4 refz parameter, SBRR-4 registers, optimizations performed with, CPG-3 register storage class, CPG-3 regular expressions, NLS-2, AXE-3 relative path names, BGUX-4 relative pathnames, SSEC-9 Release (HP-UX). See Support releasing a window, BGXW-2 remapping, UXW-7 remote access, UXW-2 Remote access, ICXW-3 remote boot, TUX-4 remote clients, UXW-4 display selection, UXW-4 remote execution facility, SAC-11 Remote Extension Mods. See 46082A/B remote file access (RFA), SAC-11 Remote File Access (RFA), SSEC-8 remote hosts, UXW-4

```
accessing, UXW-5
  setting up a login, UXW-5
  starting programs, UXW-5
  using, UXW-5
remote non-clients, starting, UXW-4
Remote operation, SBPX-2, SBPX-Glossary
remote procedure call protocol compiler (RPCGEN), SAC-11
remote procedure call (RPC), SAC-11
remote processing, UXW-2
remote programs, UXW-2
remote spooling, SAT-7
remote swapping, SAC-12
remote swapping in HP-UX clusters, SAC-7
removable media events, SSEC-7
removing
  frame elements, UXW-6
  graphics litter, UXW-6
Removing a cluster node, SAT-10
removing a disk drive, SAT-6, AXE-9
removing a file with rm, BGUX-3
removing a font manager font, FAFM-3
removing a graphics window's border via wborder(1), W9KD-4
removing a terminal, AXE-9
removing a user, SAT-5, AXE-9
Removing cluster clients, SAT-10
removing directories with rmdir, BGUX-4
removing fast alpha fonts, FAFM-2
removing files, TUX-7
removing font manager fonts, FAFM-3
removing optional file sets, AXE-9
removing optional products, AXE-9
remsh. UXW-5
rename, SSEC-7
renaming
  files, AXE-3
  folders, AXE-3
Renaming a cluster client, SAT-10
renaming a file with mv, BGUX-3
Rendering, SBRR-Glossary
  Global, SBRR-Glossary
Rendering control, SBRR-3
```

```
render_scene routine, SBRR-3, SBRR-6
repaint alternate font characters with characters from new
    alternate, W9KD-4
repaint base font characters with characters from new base font,
    W9KD-4
repainting screen, AXE-6
repainting the screen, UXW-6
Repaint pop-up menu operation, W9KD-3
repeating commands, AXE-3
repeat search, AXE-5
repeat vi command, AXE-5
replace command, BGTE-3
Replacement rule, SBPX-4
replace text, AXE-5
replacing all fonts with one base font, W9KD-4
replacing base and alternate fonts, W9KD-4
replacing text, BGTE-3
replacing text globally, BGTE-5
replacing the currently executing process with wmstart(1),
    W9KD-4
representation (iconic, normal, or concealed), changing, W9KD-
Requests, SBPX-6
required files, AXE-8
reread a folder, AXE-3
rescan for dups, TUX-B
reset, AXE-6
RESET_DEVICE definition, SBPX-3
resize, UXW-4, UXW-6
resizing
  images on paper, UXW-8
  windows, UXW-3
resizing windows, BGXW-2
resolution of display screen, effect on default fonts, W9KD-4
resolution of the display screen, W9KD-2
RESOURCE_MANAGER, ICXW-3
RESOURCE_MANAGER property, UXW-7
resources, UXW-6
  client-specific, UXW-6
  coloring icons, UXW-6
  controlling, UXW-6
```

defined, UXW-6 focus policy, UXW-6 icon box, UXW-6 icon placement, UXW-6 icon size, UXW-6 icon tiling, UXW-6 matte, UXW-6 mwm, UXW-6 size, UXW-6 window control, UXW-6 window decoration, UXW-6 window frame, UXW-6 window frame, coloring, UXW-6 window frame, monochrome, UXW-6 resources and planning, SAT-2 respawn, SAC-2 respawn, AXE-7 restart, UXW-3 restore, SSEC-6, SSEC-8 restoring files and file systems, SAT-11 restore and backup system size and media, SAT-11 restore menu selection, UXW-3 restoring, UXW-3 Restoring, BGXW-2 restoring icons, AXE-6 restricted Bourne shell, AXE-3 restricted Korn shell, AXE-3 restricted shell, relation to wmstart(1), W9KD-4 restricted shells, BGUS-2 restricting access, SSEC-10 Results storage, ray tracing, SBRR-6 retained raster, W9KD-4 Retained raster, SBPX-3 retained raster, advantages and disadvantages, W9KD-4 retained raster, realtion to shared memory, W9KD-4 retained rasters, clearing on graphics window create, W9KD-5 Retained window, SBPX-Glossarv retrieving files from tape, BGUX-9 retrieving messages, NLS-4 (Return), AXE-2

Return (selecting the base font), W9KD-4 reverse vi command, AXE-5 reversing colors, UXW-8 reversing the direction of scroll arrows, W9KD-5 revision code, NLS-4 Revision (HP-UX). See Support RFA, SAC-11, SSEC-8, SSEC-10 rfa_netunam, SSEC-7 rgb, UXW-4, UXW-7 rgb.txt, ICXW-2 .rhosts, ICXW-3 .rhosts, UXW-4-5, SSEC-6 (**)**, AXE-2 risks, SSEC-9 RJE, AXE-9 rlogin, SSEC-10 rlpdaemon, TUX-2 rm, SSEC-8 rm command, BGUX-3, BGUS-5 rmdir, SSEC-7 rmdir command, BGUX-4 role of a system administrator, SAT-1 ROMAN8 character set, NLS-2 ROM, boot, SAC-2 root, SSEC-5, SSEC-8, SSEC-8 root device, SAC-9 root directory, SSEC-6 root directory (/), BGUX-4 root file system, SAC-2, AXE-7 root folder, AXE-3-4, AXE-Glossary root inode, TUX-B root menu, BGXW-2, UXW-2 default, UXW-6 displaying, UXW-3 selecting, UXW-3 root privilege, SSEC-8 root privilege, protecting, SSEC-5 root_seg parameter, SBRR-5 root user, AXE-Glossary capabilities, SAT-1 definition, SAT-1, AXE-8

```
root user security, SAT-2
root window, BGXW-2, UXW-1
 clients, UXW-3
 cursor, UXW-5
 location specification, UXW-4
 menu, UXW-2
 placing clients, UXW-4
 root menu, UXW-3
 size specification, UXW-4
 started by server, UXW-3
  tile patterns, UXW-5
 tiling, UXW-5
  with terminal window, UXW-3
Root window, SBPX-Glossary
Rotary Control Knob. See 46083A
routines
  arc, BGSB-9
 background_color_index, BGSB-8
  character_height, BGSB-7
  character_width, BGSB-7
  clear_view_surface, BGSB-8
  draw2d, BGSB-3
  fflush, BGSB-2
 fill_color_index, BGSB-8
  gclose, BGSB-2
  gopen, BGSB-2
 hatch_type, BGSB-6
  interior_style, BGSB-6
 move2d, BGSB-3
 perimeter_color_index, BGSB-8
  polygon2d, BGSB-4
 polyline2d, BGSB-4
 printf, BGSB-2
  rectangle, BGSB-5
  text2d, BGSB-7
  text_font_index, BGSB-7
Routines
  arc, SBRR-4
 background_color, SBRR-4
 bank_switch, SBRR-7
 bf_surf_global_model, SBRR-3
```

bf_surf_light_model, SBRR-3 bitmap_to_file, SBRR-7 clear_view_surface, SBRR-4 clip_rectangle, SBRR-7 create_scene, SBRR-3, SBRR-5 curve_resolution, SBRR-4 dcblock_write, SBRR-7 delete_scene, SBRR-3, SBRR-5 depth_cue, SBRR-4 depth_cue_color, SBRR-4 depth_cue_range, SBRR-4 display_enable, SBRR-5 draw3d, SBRR-4 ellipse, SBRR-4 file_to_bitmap, SBRR-7 fill_color, SBRR-4 hidden_surface, SBRR-4, SBRR-7 inq_bf_surf_global_model, SBRR-3 inq_bf_surf_light_model, SBRR-3 ing_cond_ind_mode, SBRR-3, SBRR-5 ing_rad_ambient_mode, SBRR-3, SBRR-5 ing_rad_energy, SBRR-3, SBRR-6 inq_rad_scale, SBRR-3 inq_ray_aa_parms, SBRR-3 inq_ray_item_buffer, SBRR-3 inq_ray_output, SBRR-3, SBRR-5 inq_ray_tree_parms, SBRR-3 inq_scene, SBRR-3, SBRR-5 inq_shadow_switch, SBRR-3 ing_surf_global_model, SBRR-3 ing_surf_illum_quality, SBRR-3 ing_surf_light_model, SBRR-3 inq_surf_shading_resolution, SBRR-3 interior_style, SBRR-4 light_ambient, SBRR-4 light_attenuation, SBRR-4 light_model, SBRR-4 light_source, SBRR-4 light_switch, SBRR-4 move3d, SBRR-4 open_segment, SBRR-7

output_scene, SBRR-3, SBRR-7 partial_arc, SBRR-4 partial_ellipse, SBRR-4 partial_polygon2d, SBRR-4 partial_polygon3d, SBRR-4 polygon2d, SBRR-4 polygon3d, SBRR-4, SBRR-7 polyline3d, SBRR-4 pop_state, SBRR-7 push_state, SBRR-7 quadrilateral_mesh, SBRR-4 rectangle, SBRR-4 refresh_segment, SBRR-4, SBRR-6 render_scene, SBRR-3, SBRR-6 set_cond_ind_mode, SBRR-3, SBRR-5 set_rad_ambient_mode, SBRR-3 set_rad_scale, SBRR-3, SBRR-5, SBRR-7 set_ray_aa_parms, SBRR-3, SBRR-5 set_ray_item_buffer, SBRR-3, SBRR-5 set_ray_output, SBRR-3, SBRR-5 set_ray_tree_parms, SBRR-3, SBRR-5 shade_mode, SBRR-4, SBRR-7 shadow_switch, SBRR-3 spline_cone, SBRR-4 spline_sphere, SBRR-4 spline_surface, SBRR-4 spline_torus, SBRR-4 surface_coefficients, SBRR-4 surface_model, SBRR-4 surf_global_model, SBRR-3 surf_illum_quality, SBRR-3 surf_light_model, SBRR-3 surf_shading_resolution, SBRR-3-4, SBRR-7 triangular_strip, SBRR-4 vertex_format, SBRR-4, SBRR-7 write_enable, SBRR-5 xwcreate (X11 Windows), SBPX-3 RPC, SAC-11 RPCGEN, SAC-11 RS-232C interface, INSP-9 RS-232C Interface. See 98626A

```
RS-232C Serial Interface. See 98644A
RTPRIO, SAT-5
run command login script, BGUS-4
run-level
  0, SAC-6
  2, AXE-7
  changing, AXE-7
  creating, SAC-6
  default, AXE-7
  description, SAT-2, AXE-7, AXE-Glossary
  initdefault, AXE-7
  moving between, SAC-6
  resuming normal operating, AXE-7
  s, SAC-6, SAC-8, AXE-7
run level
  changing, SAT-4
  defining a new level, SAT-4
  using the appropriate one, SAT-2
run levels
  multi-user, SAT-4
  single-user, SAT-4
running
  files, AXE-3
  PAM, AXE-3
  programs, UXW-4, AXE-3
  Starbase in raw mode, UXW-9
  windows, AXE-6
running commands, BGUX-2
running /etc/update, AXE-9
running multiple commands on the same command line, BGUX-
running programs, UXW-4
running SAM, SAT-1, AXE-9
running the window system, W9KD-3
runstate, TUX-8
```

```
s, AXE-5
S800 file, SAC-9
salvage cylinder groups, TUX-B
  adding kernel drivers, SAC-9
sam, SSEC-6
SAM, ICXW-2
SAM, UXW-5, TUX-3
  adding a hard disk drive, SAT-6, AXE-9
  adding an HP-UX cluster client, SAT-10
  adding swap space, SAT-6
  an example of using it, SAT-1, AXE-9
  dealing with error messages, SAT-1, AXE-9
  deleting swap space, SAT-6
  error messages, SAT-1, AXE-9
  escaping to a shell, SAT-1, AXE-9
  fields in data entry screens, SAT-1, AXE-9
  getting help, SAT-1, AXE-9
  losing power to the terminal, SAT-1, AXE-9
  main menu, SAT-1, AXE-9
  modify kernel parameters, TUX-4
  mounting a file system, SAT-6
  running it, SAT-1, AXE-9
  selecting a menu option, SAT-1, AXE-9
  softkeys for menus, AXE-9
  strategy for using it, SAT-1
  structure, SAT-1, AXE-9
  tips for using it, SAT-1, AXE-9
  types of screens, SAT-1, AXE-9
  unmounting a file system, SAT-6
SAM and administering a system, SAT-1, AXE-9
sample dfiles, SAT-9
Sampling, SBPX-6
sam, System Administration Manager, SSEC-1, SSEC-3, SSEC-
savehist shell variable, BGUS-5
save option, AXE-6
Save pop-up menu option, W9KD-3
save status of a window, W9KD-3
saving mail to a file, BGUX-7
saving text, BGTE-2-3, AXE-5
```

S

```
saving to a different file, BGTE-3
sb2xwd, UXW-4, UXW-9
SB_DISPLAY_ADDR, W9KD-A
SB_DISPLAY_ADDR, W9KD-5
SB_DISPLAY_ADDR, detailed description for shared memory,
    W9KD-A
SB_DISPLAY_ADDR, side-effects from changing, W9KD-A
SB_INDEV environment variable, SBPX-3
SB_INDRIVER environment variable, SBPX-3
SB_OUTDEV environment variable, SBPX-3
SB_OUTDRIVER environment variable, SBPX-3
SB_OVDEV environment variable, SBPX-3
SB_OVDRIVER environment variable, SBPX-3
SB_OV_SEE_THRU_INDEX, W9KD-B
Scaling
  Image, SBRR-Glossary
scaling, absolute graphics tablet coordinates, W9KD-5
scaling, default value for graphics tablet, W9KD-5
scaling, graphics tablet, W9KD-5
scaling, percentage graphics tablet coordinates, W9KD-5
SCCS, SSEC-8
Scene, SBRR-Glossary
  Components, SBRR-5
  Creating, SBRR-5
  Definition, SBRR-3
scene_id parameter, SBRR-3
.scf extension, UXW-7
screen, AXE-Glossary
  configurations, UXW-7
  defined, UXW-2
  depth, UXW-9
  devices, UXW-7
  dumps, UXW-8
  mode, UXW-7
  modes, UXW-9
  repainting, UXW-6
screen colors, BGXW-3
SCREEN_ITEM_BUFFER definition, SBRR-5
Screen Mode, ICXW-3
screen_on parameter, SBRR-5
screen order, NLS-7
```

screens used by SAM, SAT-1, AXE-9 script files, AXE-3, AXE-Glossary scroll, BGTE-3 scroll arrow, AXE-6 scroll arrows, disabling, W9KD-5 scroll arrows in a window's border, W9KD-3 scrollbars, UXW-4 scroll buffer size, W9KD-4 scroll buffer size, effect on swap space requirements, W9KD-A scroll buffer size, relation to window size, W9KD-4 scroll buffer size, specifying on create, W9KD-4 scroll features, UXW-4 scrolling a fast alpha rectangle, FAFM-2 scrolling commands, BGTE-3 scrolling information in a window, W9KD-3 scrolling information in a window, reversing the direction, W9KD-5 scrolling windows, AXE-6 SCRSHELL environment variable, AXE-3 SCSI. See 98265A SCSI Disk Drives. See 795x SDF file system, SAC-8 search and display, BGTE-5 search and display text, BGTE-5 search and replace text, BGTE-5 searching for files, AXE-4 searching for files using find, BGUX-9 searching for special characters, BGTE-5 searching for text, AXE-5 searching for text patterns, BGTE-5 search, interactive, SAC-2 search permission for directories, BGUX-4 search sequence, SAC-2, AXE-7 seat, UXW-3 secof2 library routine, NLS-4 SECof2 macro, NLS-4 Secondary illumination, SBRR-1, SBRR-Glossary secondary loader, SAC-8 secondary loader program, TUX-5 sections, disk, TUX-7 secured system backup, SAT-11

```
/.secure/etc/auditlog, SSEC-2
.secure/etc/passwd, SSEC-2
/.secure/etc/passwd, SSEC-6, SSEC-8
secure password entries, get, SSEC-8
secure password file, SSEC-2
secure programs, SSEC-6
secure system, maintaining, SSEC-2
secure systems, SAT-2
secure system, setting up, SSEC-2
securing your terminal, BGUX-8
security
  auditing, SAT-2
  conceptualizing it, SAT-2
  description, AXE-9
  directories, BGUX-4, BGUX-8
  files, BGUX-3, BGUX-8
  keeping your terminal secure, BGUX-8
  logins, AXE-7
  of your current directory, BGUS-4
  password, BGUX-2, BGUX-8, SAT-2
  permission and execution, SAT-2
  physical, SAT-2
  system, BGUX-4, BGUX-8, SAT-2
  the root user, SAT-2
security breach, SSEC-5, SSEC-8
  external access, SSEC-9
  load average, SSEC-5
  recognizing, SSEC-5
  telephone access, SSEC-9
  what to do, SSEC-5
security breach, network, SSEC-9
security guidelines, SSEC-6
security personnel, SSEC-6
security policy, SSEC-6
  hardware, SSEC-6
  limiting physical access, SSEC-6
  perimeter controls, SSEC-6
  physical security, SSEC-6
  procedural security, SSEC-6
  sabotage, SSEC-6
  storing backup tapes, SSEC-6
```

```
system security, SSEC-6
  user authentication, SSEC-6
  user authorization, SSEC-6
  user identification, SSEC-6
security tools, SSEC-5
security violation, SSEC-8
sed stream editor, BGTE-1
see_thru window type, W9KD-B
see_thru window type, W9KD-2
Segment
  Model, SBRR-Glossary
Segment culling, SBRR-5
Segment pruning, SBRR-5
segments of shared memory, maximum size imposed by kernel,
    W9KD-A
Segment traversal, SBRR-4
Segment traversal for radiosity, SBRR-6
Segment traversal, for ray tracing, SBRR-6
Select, W9KD-2
Select), AXE-6
selectable events, SSEC-7
selectable items, pop-up menu, W9KD-2
select button, AXE-6
select button, changing, W9KD-5
select button, graphics tablet puck or stylus, W9KD-2
select button, keyboard, W9KD-2
select button on mouse, W9KD-2
select code, SAC-9, AXE-Glossary
selected window, W9KD-2, AXE-6
selected window, pop-up menu, W9KD-2
selected window, select when changed to normal representation,
    W9KD-5
selected window, un-select when window changed to icon,
    W9KD-5
selecting an icon interactively, W9KD-3
selecting a SAM menu option, SAT-1, AXE-9
selecting a window, AXE-6
selecting a window interactively, W9KD-3
selecting a window on create, W9KD-4
selecting a window via the pop-up menu, W9KD-3
selecting a window via wselect(1), W9KD-4
```

```
selecting a window when changed to normal representation,
    W9KD-5
selecting files, AXE-3
selecting folders, AXE-3
selecting from a menu, BGXW-2
selecting items from a pop-up menu, W9KD-2
selecting the alternate font, W9KD-4
selecting the base font, W9KD-4
Select key, disabling for interactive window operations, W9KD-5
Select pop-up menu option, W9KD-3
select system call, PORT-5
selftest, SAC-2
semctl, SSEC-7
semget, SSEC-7
sending mail, BGUX-7
sending output to files, AXE-3
sensitive files, SSEC-6
sequential processing, AXE-3, AXE-Glossary
Serial Interface. See 98644A
serial interface card, SAC-2, AXE-7
Series 300
  floating point operations, PORT-1
  HP 98248A accelerator, PORT-1
  HP 98248B accelerator, PORT-1
  HP 98635A card, PORT-1
  processors, PORT-1
  recommendations, PORT-1
Series 500 data types, CPG-2
Series 800
  floating point, PORT-1
Series 800 data types, CPG-2
server, UXW-2-3, UXW-7, UXW-9, TUX-4
  starting, UXW-3
  starts root window, UXW-3
Server, ICXW-B, SBPX-2, SBPX-Glossary, SAT-10
server-client interaction model, UXW-2
Server clients, ICXW-B
Server Natural Format (SNF), W9KD-4
servers, window system, W9KD-5, W9KD-A
Server version number, ICXW-2
sessions, SAC-5
```

```
$set, NLS-4
setacl, SSEC-7
setaclentry, SSEC-8
setaudid, SSEC-7
setaudproc, SSEC-7
set command, BGUS-4-5, BGTE-6
set_cond_ind_mode routine, SBRR-3, SBRR-5
$set directive, NLS-4
setdomainname, SSEC-7
setenv command, BGUS-4, BGTE-6
setenv C-shell command, W9KD-5
setevent, SSEC-7
setgid, SSEC-7
setgid programs, SSEC-6, SSEC-8
set group ID bit (sgid), SAC-8
setgroups, SSEC-7
sethostid, SSEC-7
setlocale, NLS-4, NLS-7
setlocale, NLS-7
setlogmask subroutine, PORT-5
set nonumber, AXE-5
set_rad_ambient_mode routine, SBRR-3
set_rad_scale routine, SBRR-3, SBRR-5, SBRR-7
set_ray_aa_parms routine, SBRR-3, SBRR-5
set_ray_item_buffer routine, SBRR-3, SBRR-5
set_ray_output routine, SBRR-3, SBRR-5
set_ray_tree_parms routine, SBRR-3, SBRR-5
setresgid, SSEC-7
setresuid, SSEC-7
SETRUGID, SAT-5
settimeofday, SSEC-7
Setting
  Environment variables, SBPX-3
setting a window's autodestroy attributes via wdestroy(1),
    W9KD-4
setting editor options, BGTE-6
setting environment varaibles from .login, W9KD-5
setting environment variables from /etc/csh.login, W9KD-5
setting environment variables from login scripts, W9KD-5
setting environment variables from .profile, W9KD-5
```

```
setting environment variables from system login scripts, W9KD-
setting environment variables, general overview, W9KD-5
setting fast alpha environment information, FAFM-2
setting fast alpha font colors, FAFM-2
setting font manager clip limits, FAFM-3
setting home folder, AXE-3
setting search path, AXE-3
setting the action, AXE-3
setting the date, SAT-2, AXE-9
setting the system clock, SAT-2, AXE-9
setting the time, SAT-2, AXE-9
setting the timeout period for interactive operations, W9KD-5
setting the time zone, SAT-2, AXE-9
setting up a modem, AXE-9
setting up a secure system, SSEC-2
setting up a terminal, AXE-9
setting up peripherals, SAC-9
setting up the LP spooler, SAT-7
setting variables, BGUS-4
setting WMLOCATOR, W9KD-5
setting your password, BGUX-2
setuid, SSEC-7
SETUID bit, TUX-4
setuid programs, SSEC-6, SSEC-8-9, SSEC-9
setuid programs, writable, SSEC-5
set user ID bit (suid), SAC-8
shade_mode routine, SBRR-4, SBRR-7
Shading
  Phong, SBRR-Glossary
Shading resolution, SBRR-4
Shading resolution, radiosity, SBRR-6
Shadow control, SBRR-4
Shadowing, in ray tracing, SBRR-6
shadow_switch routine, SBRR-3
shar, SSEC-8
Shared
  Display resources, SBPX-4
  Memory, SBPX-4
shared code, SAC-7
shared memory, W9KD-5, W9KD-A, SAC-7
```

shared memory, address of, W9KD-A shared memory, address of Starbase, W9KD-5 shared memory, changing the location and/or size of, W9KD-A shared memory components control information, W9KD-A frame buffer, W9KD-A Starbase area, W9KD-A window information, W9KD-A shared memory, default size, W9KD-5 shared memory environment variables, detailed description, W9KD-A shared memory, example configuration, W9KD-A shared memory, example of decreasing size of, W9KD-A shared memory, font manager, FAFM-3 shared memory limits imposed by kernel configuration parameters, W9KD-A shared memory, picture of, W9KD-A shared memory problems, W9KD-A shared memory, reducing size to increase performance, W9KD-Α shared memory, relation to code/data space, W9KD-A shared memory segment, SAC-7 shared memory segment size, maximum imposed by kernel, W9KD-A shared memory, side-effects from changing, W9KD-A shared memory size, W9KD-5, W9KD-A shared memory, size of, W9KD-A shared memory usage, W9KD-A shared segment, SAC-7 shell, BGUX-2, AXE-7, AXE-Glossary differences in redirecting error, BGUX-6 SHELL, W9KD-3 shell, attaching to a dead window, W9KD-4 shell, creating a window containing a, W9KD-4 SHELL, determining the value of, W9KD-4 shell, determining which is used in new terminal windows, W9KD-4 SHELL environment variable, BGUS-3 shell, exiting from in a window, W9KD-4 SHELL, relation to custom wmstart(1) script, W9KD-4 SHELL, relation to newly created windows, W9KD-4

```
shells, UXW-5
  available on HP-UX, BGUS-2
  changing your shell, BGUS-3
  default prompt, BGUS-3
  default shell, BGUS-4
  definition, BGUS-2
  differences, BGUS-2
  environment, BGUS-4
  file names, BGUS-3
shell script, BGSB-2
SHELL, setting in .profile or .login, W9KD-4
shell, terminating in a window, W9KD-4
shell used in a window, W9KD-3
shell used in newly created windows, W9KD-4
shell variables, BGUS-4
  autologout, BGUS-5
  HISTFILE, BGUS-5
  history, BGUS-5
  HISTSIZE, BGUS-5
  HOME, BGUS-4
  ignoreeof, BGUS-5
  MAILCHECK, BGUS-5
  MAILPATH, BGUS-5
  noclobber, BGUS-5
  notify, BGUS-5
  path, BGUS-5
  prompt, BGUS-5
  PS1, BGUS-4
  savehist, BGUS-5
shell, window, W9KD-4
Shift, AXE-2
Shift - (▼), AXE-3
shifting, NLS-2
Shift - AXE-3
Shift - (), AXE-3
Shift, Select, W9KD-2
Shift - System, AXE-3
Shift Tab, AXE-2
(Shift)-(A), AXE-3
Shift, User, W9KD-2
shmat, SSEC-7
```

```
shmctl, SSEC-7
shmctl system call, PORT-5
shmdt, SSEC-7
shmget, SSEC-7
shmmax, W9KD-A
shmmaxaddr, SAC-7
shmmaxaddr kernel configuration variable (shared memory),
    W9KD-A
shmop system call, PORT-5
shmseg, SAC-7
short, CPG-2
showmode option, BGTE-3, BGTE-6
shredding, SSEC-6
shrinking a window, BGXW-2
shuffle windows, UXW-3
shuffling the bottom window up via wdisp(1), W9KD-4
shuffling the top window down via wdisp(1), W9KD-4
shuffling windows, AXE-6
shuffling windows interactively, W9KD-3
shuffling windows via (Shift)-(Select), W9KD-2
shuffling windows via wdisp(1), W9KD-4
shutdown, SSEC-5, SSEC-7, SSEC-9, SAT-4
  command syntax, AXE-7
  description, SAC-3
  halting the system, SAC-3
  improper, SAC-2, AXE-7
  reboot command, SAC-3
  rebooting the system, SAC-3
  resuming normal operating run-level, AXE-7
  shutdown command, SAC-3
 shutting down the system, AXE-7
  system maintenance, AXE-7
shutdown command, SAT-4
shutting down the system, SAT-4
SI character (selecting the base font), W9KD-4
side-effects from changing shared memory, W9KD-A
signal handlers, CPG-3
signals
  SIGTTIN, SAC-5
signal system call, PORT-5
signal trapping, BGUS-2, BGUS-4
```

```
signed char, CPG-2
signed int, CPG-2
signed short, CPG-2
sigspace system call, PORT-5
SIGTTIN signal, SAC-5
sigvector system call, PORT-5
single-byte
  program conversion, NLS-4
single-quoting arguments, BGUX-5
single-user mode, TUX-8
single-user run level, SAT-2, SAT-4
single-user state, SSEC-5, SSEC-8
single-user system, BGUX-1
size
  changing for windows, UXW-3
  specification, UXW-4
  window, UXW-6
size box, AXE-6
size control box, W9KD-3
size control box, disabling, W9KD-5
size, font, FAFM-3
size, maximum window, W9KD-4
size menu selection, UXW-3
size of display screen, W9KD-2
size, of fast alpha fainfo structure, FAFM-2
size of pty cache, W9KD-5, W9KD-A
size of pty set, W9KD-5, W9KD-A
size of raster, W9KD-4
size of raster, specifying on create, W9KD-4
size of scroll buffer, W9KD-4
size of scroll buffer, effect on swap space requirements, W9KD-A
size of scroll buffer, specifying on create, W9KD-4
size of shared memory, W9KD-A
size of shared memory segments, maximum imposed by kernel,
    W9KD-A
size of window, W9KD-4
size of window, changing via size control box, W9KD-3
size of window, changing via wsize(1), W9KD-4
size of window, maximum, W9KD-4
size of window, minimum, W9KD-4
size of window, specifying on create, W9KD-4
```

```
Size pop-up menu option, W9KD-3
size resources, UXW-6
size, window default, W9KD-4
sizing icons, UXW-6
sizing windows, AXE-6
skills for administering a system, SAT-1, AXE-8
slave pty directory, W9KD-5, W9KD-A
Small Computer Systems Interface. See 98265A
smart windows, UXW-9
smount, SSEC-7
.snf extension, UXW-7
SNF (Server Natural Format), W9KD-4
socket, SSEC-7
sockets, SAC-11
Sockets, ICXW-2
softkey labels, font used in, W9KD-5
softkey menu control
  (Menu), W9KD-2
  (Shift)-(User), W9KD-2
  (System), W9KD-2
softkeys, UXW-4
softkeys for SAM menus, AXE-9
software
  HP-UX installation, SAT-2
  HP-UX update, SAT-2
Software color map, SBPX-4, SBPX-Glossary
software developer, NLS-7
sort, NLS-3
sort command, BGUX-6, BGUX-9
sorting, NLS-2
Source code compatibility, SBPX-8
source device, AXE-Glossary
source file
  editing, NLS-4
  management, NLS-4
  multi-file management, NLS-4
source message file format, NLS-4
source program
  editing, NLS-4
SOX11, SBPX-6
sox11 driver, SBPX-2
```

```
Speaker Module. See 46081A
special cases, AXE-3
special characters, BGTE-5-6, AXE-2
special characters disable, AXE-3
special configurations, UXW-7
special file, AXE-Glossary
special file, display device, W9KD-5
special file, keyboard, W9KD-5
special file, locator device, W9KD-5
special files
  block, SAC-9
  character, SAC-9
  description, SAC-9
  pty, SAC-9
special files, block, SSEC-5
special files, character, SSEC-5
special files for windows, W9KD-4
special files, window system, W9KD-5
special input devices, UXW-7
special keys, W9KD-2, AXE-2
special locales, NLS-7
specifying
  color names, UXW-4
  fonts, UXW-5
  icon colors, UXW-6
  key remapping expressions, UXW-7
  pointer keys, UXW-7
  size and location, UXW-4
  the font in the command line, UXW-4
spline_cone routine, SBRR-4
spline_sphere routine, SBRR-4
spline_surface routine, SBRR-4
spline_torus routine, SBRR-4
spoofing, SSEC-6
spooler
  LP, SAT-7
  setting it up, SAT-7
spooler, status, SAT-7
sprite, AXE-6
SPU, UXW-2, ICXW-A
SRM, AXE-9
```

```
SRM Interface. See 50961A, 98629A
Stable Storage, SAC-2
stack, AXE-6
stacked mode, UXW-7
Stacked mode, ICXW-3
Stacked Screen mode, SBPX-3-4, SBPX-Glossary
stack segment, SAC-7
stack size, SAT-A
stack space, computing, W9KD-A
standard echo shapes, W9KD-2
standard error, SAC-5
standard error (stderr), BGUX-6
Standard hardware configuration, ICXW-3
^^, AXE-3
standard input, SAC-5, AXE-3
standard input (stdin), BGUX-6
standard output, SAC-5, AXE-3
standard output (stdout), BGUX-6
standard pointer shapes, W9KD-2
standards
  C, PORT-1
  FORTRAN, PORT-1
  HP-UX portability, PORT-1
  Pascal, PORT-1
Starbase, SBPX-1
  Display List, SBPX-1
  Echo, SBPX-Glossary
  -on-X Driver Architecture, SBPX-2
STARBASE_AMBIENT definition, SBRR-5
Starbase Display List subsystem, SBRR-3
Starbase Display List Subsystem, SBRR-3
Starbase information area of shared memory, W9KD-A
Starbase interaction with Windows/9000, W9KD-A
Starbase Library, linking with programs, FAFM-4
Starbase library, relation to window process, W9KD-A
Starbase running in raw mode, UXW-9
Starbase shared memory, address of, W9KD-5
STAR_MIN file set, AXE-6
start a program, AXE-3
start clock, UXW-3
starting
```

```
client options, UXW-3
  clients, UXW-4
  local clients, UXW-4
  multi-seat systems, UXW-3
  mwm, UXW-3
  non-clients, UXW-4
  programs, UXW-5
  remote clients, UXW-4
  remote shell, UXW-5
  server options, UXW-3
  X, UXW-3, UXW-5
starting clients, BGXW-4
starting non-clients, BGXW-4
starting the LP spooler, SAT-7
starting the window system, W9KD-3
starting the window system automatically on login, W9KD-3
starting windows, AXE-6
starting X11, BGXW-2
Starting X11, ICXW-3
start load, UXW-3
start problems, X Window System, UXW-3
startup
  attended mode, SAT-4
  default HP-UX system, SAT-4
  selecting a system, SAT-4
  unattended mode, SAT-4
stat, SSEC-8
statements
  INCLUDE, PORT-2
Station address, SAT-10
status
  LP spooler, SAT-7
status of a window, listing, W9KD-4
STEP_SIZE definition, SBRR-4
sticky bit, SAC-7
sticky menu, defined, UXW-3
stime, SSEC-7
st_mode, SSEC-8
stop, AXE-6
Stop, W9KD-2
Stop key, pausing terminal (term0) window output, W9KD-3
```

```
stopping
  clients, UXW-3
  non-clients, UXW-4
  programs, UXW-4
  window system, UXW-3
stopping a job, BGUS-3
stopping a process, BGUS-3
stopping a program via (Break), W9KD-2
stopping a window move, BGXW-2
stopping output to a terminal window via (Stop), W9KD-2
stopping the LP spooler, SAT-7
stopping X11, BGXW-2
stop window scrolling, AXE-6
Storing images, SBRR-7
strategy for using SAM, SAT-1
strcmp, NLS-4
  example, NLS-4
strcoll, NLS-4
streamlining audit log entries, SSEC-7
strftime library routine, NLS-4
string comparison, NLS-2
string files
  removing non-messages from, NLS-4
stringing commands, AXE-3
string length, font manager, FAFM-3
strncmp, NLS-4
strod(3C) library routine, NLS-4
Stroke text, SBPX-Glossary
strord
  example, NLS-7
strtoacl, SSEC-8
strtoaclpatt, SSEC-8
strtod library routine, NLS-4
structure of an icon, W9KD-2
structure of file system, AXE-4
structure of SAM, SAT-1, AXE-9
structure of window, W9KD-2
Structure program, FAFM-2
structures, CPG-2
strxfrm
  example, NLS-4
```

```
stty, SAC-4
stty command, BGUS-5
Style.c example, FAFM-3
style, font, FAFM-3, W9KD-4
stylus, AXE-6
stylus, graphics tablet, W9KD-2
stylus select button, W9KD-2
subjects, SSEC-6
subroutines, PORT-5
subscripts, AXE-3
subshell, BGUS-3
substitute, AXE-5
substitute command, BGTE-3
substitute system administrator, SAT-1
subsystem files, SSEC-8
subsystems, protecting key, SSEC-8
success, event, SSEC-7
summarizing and reporting accounting information, SAC-13
summary information area, SAC-8
summary of environment variables, W9KD-5
superblock, SAC-8, TUX-6, AXE-Glossary
superblock, alternate, SAC-8
super-user, AXE-Glossary
superuser, SAC-5, SSEC-5-6, SSEC-8
  capabilities, SAT-1
  definition, SAT-1, AXE-8
superuser security, SAT-2
support
  aspects of, NLS-2
Support
  98568A VMEbus Expander, INSP-2
  98577A VMEbus Expander, INSP-2
Surface attributes, SBRR-4
surface_coefficients routine, SBRR-4
Surface illumination quality, SBRR-4
surface_model routine, SBRR-4
surf_global_model routine, SBRR-3
surf_illum_quality routine, SBRR-3
surf_light_model routine, SBRR-3
surf_shading_resolution routine, SBRR-3-4, SBRR-7
suspend/resume auditing, SSEC-7
```

```
su (substitute user), SSEC-6, SSEC-8
swap, SSEC-8
swap device, AXE-9
swap, dynamic, SAT-6, AXE-9
swap files, SSEC-8
swapon, SSEC-7
  command, SAT-6, AXE-9
  syntax and parameters, SAT-6
swapon command, SAC-7
swapper, SAC-7
swap space, SAC-7, TUX-4
  adding it, SAT-9
  adding more space, SAT-6
  configuring, SAC-7
  description, SAT-9, AXE-9
  determining requirements, SAC-7, AXE-9
  dynamic swap space, SAC-7
  HP-UX cluster, SAC-12
  multiple swap devices, AXE-9
  operating system parameters, SAT-A
  primary swap space, SAC-7
  related to the file system, AXE-9
swap space, example for configuring, W9KD-A
swap space for Windows/9000, configuring HP-UX, W9KD-A
swap space, increasing to accommodate optimizer requirements,
    CPG-3
swap space requirements of window system, W9KD-A
switch settings, SAC-9
symbolic links, TUX-7
symbolic mode, SAC-8
symbol_int, of font manager escapecodes structure, FAFM-3
sync, SSEC-9
sync command, BGUS-4
Synchronization, SBPX-4
syntax
  general, UXW-4
  hpwm resource, UXW-6
  mwm resource, UXW-6
  resources, UXW-6
SYSBCKUP, SAC-8
SYSDEBUG, SAC-8, AXE-7
```

```
SYSHPUX, SAC-8, AXE-7
syslog subroutine, PORT-5
system
  auditing, SAT-2
  backup and restore, SAT-11
  maintenance, AXE-7
  panic message, AXE-7
  recovery, AXE-7
  security, SAT-2
  shutdown, SAT-4, AXE-7
  startup, AXE-7
  using a recovery system, SAT-2, AXE-9
System, W9KD-2
System, AXE-3, AXE-6
system accounting
  corrupted files, SAC-13
  daily usage, SAC-13
  directory structure, SAC-13
  errors, SAC-13
  files, SAC-13
  holidays, SAC-13
  HP-UX cluster, SAC-12
  installation, SAC-13
  logging in, SAC-13
  monthly usage, SAC-13
  overview, SAC-13
  shell scripts, SAC-13
  system data flow, SAC-13
system administration
  evaluating user needs, SAT-2
  introduction, SAT-1
  navigating SAM, SAT-1, AXE-9
  prerequisite skills, SAT-1, AXE-8
  restoring files after a crash, SAT-11
  using SAM, SAT-1, AXE-9
System Administration Manager (SAM), SSEC-1, SSEC-3,
    SSEC-8
system administration mode, SAC-6, AXE-7
system administration substitute, SAT-1
system administrator, BGUX-1, SSEC-6, SSEC-8, NLS-2, NLS-
    5
```

```
duties, SAT-1
  essential files, SAT-6
  role, SAT-1
System Administrator, NLS-3, NLS-6
  tasks, NLS-3
system administrator definition, SAT-1, AXE-8
System Administrator Manager (SAM), SSEC-8
system administrator manual, SSEC-1
System Administrator Manual, W9KD-5
system aliases, SSEC-8
system calls, PORT-5
  exec, SAC-5, SAC-7
  fork, SAC-5
  vfork, SAC-5
system clock, SAT-2, AXE-8
system clock on an HP-UX cluster, SAT-2, AXE-9
system commands, AXE-A
system console, SAC-2, AXE-9
  description, AXE-Glossary
  selecting, AXE-7
system crash, SSEC-6, SAT-2, AXE-8
  final alternatives, SAT-2, AXE-9
system deadlock, SAC-8
System default files, ICXW-3
System defaults, ICXW-3
system files
  protecting, SSEC-5
system files and directories, SSEC-8
system.hpwmrc, ICXW-2
system load, UXW-4
system login script, BGUS-4-5, SAC-4
system maintenance, SSEC-6
system manager, BGUX-1
system.mwmrc, BGXW-5, BGXW-C, ICXW-2-3, ICXW-B
SYSTEM_NAME, ICXW-2
system operator, BGUX-1
system panic
  hardware failure, TUX-9
system panics, TUX-9
  HP-UX cluster specific, TUX-4
  LAN, TUX-9
```

recovering from, TUX-9 system penetration, SSEC-8 System Processing Unit, UXW-2 system programmer, SSEC-6 system recovery final alternatives, SAT-2, AXE-9 System requirements, ICXW-2 system resources and planning, SAT-2 system run level using the appropriate one, SAT-2 system runstate, TUX-8 systems accounting, SAT-2 system security, BGUX-2, BGUX-4, BGUX-8, SSEC-6, SSEC-8, AXE-9 enforcing, SSEC-6 system security, enforcing, SSEC-8 system security officer, SSEC-6, SSEC-8 system shutdown, SAC-2 system startup, SAC-2 system tape, SSEC-5 system.uwmrc, ICXW-2 sys.x11start, BGXW-3-4, BGXW-B, ICXW-2 sys. Xdefaults, BGXW-3, ICXW-2-3, ICXW-B sys.Xdefaults, UXW-5

Tab, AXE-2 TABLES

Cluster Information Sheet, SAT-10
Virtual Memory Parameter Table, SAT-A
tabs command, BGUS-5
talk, SSEC-8
tampering, SSEC-9
Tape Density and Unit Number Bit Settings, AXE-9
Tape Drives. See 797x, 798x, 914x
tar, AXE-9
tar, SSEC-8
tar command, SAT-11
tasks, auditing, SSEC-3
tcio, AXE-9
tcio, SAT-11

```
tcio command, BGUX-9
tcio command, SAT-11
tee command, BGUX-6
Tektronix 4014, UXW-4
telephone access, SSEC-8
TERM, W9KD-5
term0 icon, W9KD-2
term0 (see terminal), W9KD-2
Term0 terminal, UXW-4
term0 window, AXE-6
term0 window data swap space requirements, W9KD-A
TERM environment variable, BGUS-4-5, AXE-9
TERM environment variable, UXW-6, SAC-4, AXE-3, AXE-7
TERM = (hp), BGUX-2
TERM = (hp) prompt, BGUX-2, BGUS-4-5, SAC-4
terminal
  adding, SAC-10, AXE-9
  configuration, SAC-10
  definition, AXE-6
  icon, AXE-6
  removing, AXE-9
  setting, NLS-3
  setting up, AXE-9
  stty, NLS-3
  window, AXE-6
Terminal and Modem Connections, AXE-9
terminal-based programs, UXW-4
terminal, configuration, SAC-10
terminal configuration, TUX-8
terminal emulation, UXW-2, UXW-4
terminal emulator, BGXW-2
terminal icon, W9KD-2
terminal port, SSEC-8
terminal, resetting, TUX-8
terminals, TUX-8
  8-bit mode, NLS-5
Terminals, INSP-9
Terminals & Displays Worksheet, INSP-1
terminal (term0) window cache, disabling, W9KD-5
terminal (term0) window default alternate font, W9KD-5
terminal (term0) window default base font, W9KD-5
```

```
terminal (term0) window fonts, managing, W9KD-4
terminal (term0) window scroll buffer size, effect on swap space,
    W9KD-A
terminal type, BGUX-2
terminal window, UXW-3
terminal window data swap space requirements, W9KD-A
terminal window server, W9KD-A
terminal window type, W9KD-2
terminate PAM, AXE-3
terminating a job, BGUS-3
terminating a process, BGUS-3
terminating a shell in a window, W9KD-4
terminating processes, TUX-8
terminating the fast alpha environment, FAFM-2
terminating the fast alpha environment, example, FAFM-2
terminfo database, BGUS-4, SAC-4, AXE-9
term-type, BGUX-2
TERM variable, BGTE-1
_territory, NLS-5
Tessellation, SBRR-4, SBRR-Glossary
testing hardware, SAT-2
text, BGSB-7, AXE-2
  font, BGSB-7
  height, BGSB-7
  text2d, BGSB-7
  width, BGSB-7
text2d, BGSB-7
text-copying commands, BGTE-4
text cursor, UXW-3
text editing, UXW-4
text entry, AXE-5
text-entry commands, BGTE-3
text_font_index, BGSB-7
text in a graphics window, using Fast Alpha, FAFM-2
text input mode, BGTE-2-3, AXE-5
text-moving commands, BGTE-4
text patterns, BGTE-5
text segment, SAC-7
text size, SAT-A
text, writing in graphics windows using Font Manager Library,
    FAFM-3
```

thin border, W9KD-2, W9KD-4 thin border on create, W9KD-4 thin border, setting via wborder(1), W9KD-4 ThinkJet Printer. See 2225A tilde expansion, BGUS-3 tile boundary, W9KD-5 tiling, UXW-5 time, UXW-4, SAT-2, AXE-9 time bombs, SSEC-6 time, display, NLS-2 time of day, AXE-3 timeout for interactive operations, setting, W9KD-5 time-out option, SAC-10 time, setting it, SAT-2, AXE-9 time zone, AXE-3 time zone, setting it, SAT-2, AXE-9 time zone (TZ), SAT-2, AXE-9 timing, button click, UXW-6 tips, UXW-1 tips for using SAM, SAT-1, AXE-9 tips for using this guide, BGXW-1 title bar, BGXW-2, UXW-3 titles, menu, UXW-6 /tmp, SSEC-9 _tolower subroutine, PORT-5 tools, TUX-3 working with CDF's, TUX-4 topping a window, W9KD-3 topping a window via wdisp(1), W9KD-4 topping a window when it is changed to an icon, W9KD-5 topping a window when it is changed to normal representation, W9KD-5 topping a window when it is selected, W9KD-5 topping a window when not occluded, W9KD-5 topping a window when occluded, W9KD-5 Top pop-up menu option, W9KD-3 top window, W9KD-4 total accounting records, SAC-13 Touchscreen. See Terminals toupper library routine, NLS-4 _toupper subroutine, PORT-5

Tracing Ray, SBRR-Glossary Tracking, SBPX-4, SBPX-6 tracking, improving performance of processes', W9KD-5 tracking the locator, problems, W9KD-5 tracking timeout period, W9KD-5 tracking with multiple screen devices, UXW-7 transferring data, AXE-3 transferring files, SAT-6, AXE-9 LIF format, SAT-6 networking services, SAT-6 transferring LIF files onto HP-UX, SAT-6 transferring parameters, AXE-3 translating problems and solutions, NLS-6 Transmittance, SBRR-5 transmittance parameter, SBRR-4 Transparency, in ray tracing, SBRR-6 transparent background color, UXW-9 transparent windows, UXW-9 transposing letters (xp), BGTE-4 trap, SSEC-8 trap command, BGUS-4 trap door, SSEC-6 tree_cutoff parameter, SBRR-5 triangular_strip routine, SBRR-4 trig subroutine, PORT-5 Trimming curves, SBRR-4 Trojan Horses, SSEC-5-6, SSEC-6, SSEC-8 troubleshooting, BGTE-1 Troubleshooting (radiosity), SBRR-B Troubleshooting, ray tracing, SBRR-B troubleshooting techniques, TUX-1 truncate, SSEC-7 Trusted Computing Base (TCB), SSEC-6, SSEC-8 trusted networking, SSEC-10 trusted system, SSEC-1 trusted system, converting to, SSEC-2 try/recover, PORT-4 tset, SAC-4 tset command, BGUS-4-5, AXE-9

tty(7), W9KD-4 ttyp8, W9KD-A turning auditing on/off, SSEC-3 turning off autodestroy status, W9KD-4 turning off the computer, AXE-7 tutorial vi, AXE-5 two-byte fonts, W9KD-4 type, AXE-1 typedef facility, PORT-4 typeface, of font manager escapecodes structure, FAFM-3 type parameter, SBRR-4 types of files, AXE-4 type style, BGXW-D type styles. See fonts typing text, BGXW-1 typing commands, BGUX-2 typing mistakes ((Back space)), BGUX-2 typing text, BGTE-3 typographical conventions, UXW-1 Typographical conventions, ICXW-1 typographical tips, UXW-1 TZ environment variable, BGUS-4 TZ environment variable, SAT-2, AXE-3, AXE-7, AXE-9 tztab, SAT-2

u, AXE-5
u, AXE-5
udp datagram, SSEC-7
uevent, SSEC-7
uevent1, SSEC-7
uevent2, SSEC-7
UID definition, SAT-1, AXE-8
U_INIT_TRAPS, PORT-4
ulimit, SSEC-8
umask, SSEC-6
umask command, BGUX-8, BGUS-5
umount, SSEC-7
unabbreviate command, BGTE-6
Unable to access ttyxx, AXE-9
uname system call, PORT-5

U

```
unattended mode, SAC-2, SAT-4, AXE-7
unattended mode (boot), TUX-5
undial subroutine, PORT-5
undo commands, BGTE-3
undoing a menu selection, BGXW-2
undo vi command, AXE-5
uniqueness, ACL, SSEC-8
unit number, AXE-Glossary
unlink, SSEC-7
unload tape, SAC-10
unmap command, BGTE-6
unmounting
  a file system, SAT-6
  a file system with umount, SAT-6
  file systems with umount -a, SAT-6
  or mounting a file system, SAT-6
unpack, SSEC-8
unreachable code, optimizations performed on, CPG-3
unresponsive terminals, TUX-8
unsigned char, CPG-2
unsigned int, CPG-2
unsigned long, CPG-2
unsigned short, CPG-2
unused files, AXE-4
(A), AXE-2
update, ICXW-2
update, SSEC-2
  adding applications, SAT-3
  cartridge tape, updating from, SAT-3, SAT-3, SAT-3
  cartridge tape, updating from (errors), SAT-3
  changing source or destination, SAT-3
  cluster updates, SAT-3
  cluster updates (errors), SAT-3
  command line, SAT-3
  de-selecting filesets, SAT-3
  destination, changing, SAT-3
  device files, SAT-3, SAT-3
  disk space. See disk space
  error information, SAT-3, SAT-3
  /etc/newconfig, reading, SAT-3
  fileset dependencies, SAT-3
```

interactively, SAT-3 local source, updating from, SAT-3, SAT-3, SAT-3 local source, updating from (errors), SAT-3 log file, SAT-3, SAT-3, SAT-3 main menu, illustration, SAT-3 main menu, using, SAT-3 minfree requirements, SAT-3 mounting file systems, SAT-3 navigation, SAT-3 netdist. See netdist, netdist daemon, netdist server nine-track tape, updating from, SAT-3, SAT-3 nine-track tape, updating from (errors), SAT-3 non-interactively, SAT-3 prerequisite information, SAT-3 removing files, SAT-3 source device, SAT-3, SAT-3 source device, changing, SAT-3 symbolic links, creating, SAT-3 update program, SAT-3 updating the system, AXE-8 updist program, SAT-3, SAT-3 updist program (errors), SAT-3 updating, AXE-9 calculating disk space, AXE-9 changing source or destination, AXE-9 default destination, changing, AXE-9 default source, changing, AXE-9 destination, changing, AXE-9 disk space analysis, AXE-9 error files, AXE-9 error messages, AXE-9 fileset definitions, AXE-9 HP-UX, AXE-9 kernel/file agreement, AXE-9 loading media, AXE-9 log files, viewing, AXE-9 "minfree", AXE-9 minimum free space, AXE-9 navigating, AXE-9 new features, AXE-9 non-HP terminal, AXE-9

odd behavior, AXE-9 prerequisite information, AXE-9 rebooting the system, AXE-9 running /etc/update, AXE-9 source, changing, AXE-9 system reboots, AXE-9 TERM env variable, AXE-9 user interface, AXE-9 updating HP-UX software, SAT-2 updating the HFS file system, SAC-8 updist program. See commands, update upgrade. See update upgrading HP-UX, AXE-9 upper-case letters, BGTE-3 uppercase letters, BGTE-2, UXW-1 u_rad parameter, SBRR-4 USASCII character set, NLS-2 U.S. Computer Security Act of 1987, SSEC-6 use count, SAC-7 user adding one, SAT-5 user access, SSEC-8 definition, AXE-Glossary system startup, AXE-7 user accounts, SSEC-6, SSEC-8 adding an account, SSEC-8 archiving a user's files, SSEC-8 deactivating an account, SSEC-8 guest accounts, SSEC-8 mailbox, SSEC-8 moving a user account, SSEC-8 other systems, SSEC-8 pseudo-accounts, SSEC-8 reactivating accounts, SSEC-8 removing an account, SSEC-8 temporary accounts, SSEC-8 user accounts, adding, SSEC-8 user accounts, managing, SSEC-8 user area, W9KD-2, AXE-6 User default files, ICXW-3 user-defined icons, effect on swap space requirements, W9KD-A

```
user-defined pop-up menus, effect on swap space requirements,
    W9KD-A
user ID, SAC-8
user ID (uid), SSEC-8
user ID, use of, UXW-1
user interface, default configuration, W9KD-5
user interface, reconfiguring, W9KD-5
user menu, AXE-3, AXE-6
user name, BGUX-2, BGUX-6, BGUS-2-4, AXE-2, AXE-
    Glossarv
username, SAC-4
user process file usage, W9KD-A
users
  access to files, AXE-3
  adding, AXE-9
  configuring a system, SAT-2
  creating a group, SAT-5
  deactivating, SAT-5
  evaluating needs, SAT-2
  providing features for them, SAT-2
  reactivating a user, SAT-5
  removing, AXE-9
  removing them, SAT-5
users, adding, UXW-5
users, managing them, SAT-5
using
  a recovery system, SAT-2, AXE-9
  the file system, SAT-6
using a pop-up menu, W9KD-2
using a recovery system, SAT-2
using PAM, AXE-3
using SAM, a strategy, SAT-1
using the appropriate run level, SAT-2
using the keyboard, AXE-2
using the System Administration Manager (SAM), SAT-1,
    AXE-9
using windows, AXE-6
/usr, SSEC-5, SSEC-8
/usr/adm/inetd.sec, SSEC-10
  syntax, SSEC-10
/usr/bin, SSEC-8
```

```
usr/bin, ICXW-4
/usr/bin directory, BGUS-4
/usr/bin/wmstart, W9KD-4
/usr/bin/X11, ICXW-4, ICXW-B
/usr/bin/X11/, ICXW-B
/usr/contrib/bin, SAC-4
/usr/contrib/bin directory, BGUS-4
/usr/include/fa.h, FAFM-2
/usr/include/fonticon.h, FAFM-3
/usr/lib, SAC-4
/usr/lib, SSEC-8
/usr/lib directory, BGUS-4
/usr/lib/gserver, W9KD-5
/usr/lib/libsbrr.a library, SBRR-3
/usr/lib/nls/config directory, NLS-5
/usr/lib/nls/language_name, NLS-5
/usr/lib/raster, W9KD-4
/usr/lib/raster/dflt, W9KD-5
/usr/lib/raster/dflt/a, W9KD-5
/usr/lib/raster/dflt/a/h, W9KD-5
/usr/lib/raster/dflt/a/1, W9KD-5
/usr/lib/raster/dflt/b, W9KD-5
/usr/lib/raster/dflt/b/h, W9KD-5
/usr/lib/raster/dflt/b/1, W9KD-5
/usr/lib/t0server, W9KD-5, W9KD-A
/usr/lib/terminfo, SAT-2, AXE-9
/usr/lib/terminfo database, BGUS-4, SAC-4, AXE-9
/usr/lib/tztab, SAT-2, AXE-9
/usr/lib/wm, W9KD-4
/usr/lib/X11/, ICXW-2
/usr/lib/X11/, UXW-3
/usr/local/bin, SAC-4
/usr/local/bin directory, BGUS-4
/usr/mail, SSEC-8
/usr/news, SAT-2, AXE-9
/usr/spool, SSEC-8
/usr/spool/cron/crontabs, SSEC-8
/usr/tmp, SSEC-8
USR_TMP_SBRR environment variable, SBRR-6
ustat system call, PORT-5
utilities, AXE-3
```

```
utilities, xwininfo, UXW-6
uucp, SSEC-8, SAT-2
UUCP
  background processes, TUX-3
  behind the scenes, TUX-3
  cable wiring, TUX-3
  communication layers, TUX-3
  configuration files, TUX-3
  device files, TUX-3
  Dialers file, TUX-3
  direct connection, TUX-3
  direct connections, TUX-3
  file transfer, TUX-3, TUX-3
  information flow, TUX-3
  log files, TUX-3
  modem connection, TUX-3
  modem connections, TUX-3
  Permissions file, TUX-3
  remote command execution, TUX-3, TUX-3
  remote login, TUX-3
  status information, TUX-3
  testing "Devices" file, TUX-3
  testing "Systems" file, TUX-3
  uucheck, TUX-3
  uucico, TUX-3
  uucp, TUX-3
  uucp file transfer, TUX-3
  uulog, TUX-3
  uuls, TUX-3
  uustat, TUX-3
  Uutry script, TUX-3
  versions of, TUX-3
UUCP in an HP-UX cluster, SAC-12
uwm, ICXW-3
uwm, UXW-4-6, UXW-A
uxgen, SAC-7, SAC-9
```

```
V
     variable, AXE-3, AXE-Glossary
     variable assignment, AXE-3
     variables, initializing, CPG-3
     variables, setting and referencing, BGUS-4
     vdc_extent, W9KD-A
     VDCs (Virtual Device Coordinates), BGSB-3
     Version number, ICXW-2
     versions of PAM, AXE-3
     version stamp in a.out, CPG-3
     vertex_format routine, SBRR-4, SBRR-7
     vfork, SSEC-7
     vfork system call, PORT-5
     vfsmount, SSEC-7
     vfsmount system call, PORT-5
     vheight, of font manager escapecodes structure, FAFM-3
     ٧i
       command mode, AXE-5
       cursor movement, AXE-5
       deleting text, AXE-5
       description, AXE-1, AXE-5, AXE-Glossary
       entering, AXE-5
       errors, AXE-5
       inputting text, AXE-5
       joining lines, AXE-5
       leaving, AXE-5
       list of commands, AXE-5
       modes, AXE-5
       modifying text, AXE-5
       more information, AXE-5
        numbering files, AXE-5
        place, AXE-5
        repeat command, AXE-5
       replacing text, AXE-5
        searching for text, AXE-5
        terminating commands, AXE-5
        text input mode, AXE-5
        tutorial, AXE-5
        undo, AXE-5
        yank, AXE-5
     vi environment, BGTE-6
     view, AXE-3
```

```
viewable clients, UXW-4
      viewable services clients, UXW-4
      viewing a file's contents with more, BGUX-3
      viewing audit logs, SSEC-3
      Viewing parameters, radiosity, SBRR-7
      viewing screen dumps, UXW-8
      Viewports, in ray tracing, SBRR-7
      vipw, SSEC-8
      virtual home environment, SAC-11
      virtual memory, SAC-7
      virtual memory management, AXE-Glossary
      virtual memory parameters, SAT-A
      viruses, SSEC-6
      Visual class, SBPX-4
      VMEbus Expander. See 98577A VMEbus Expander
      VMS predefined filenames, PORT-2
      volatile, CPG-2
      volume directory information, SAC-8
      volume header, SAC-8
      volume number, AXE-Glossary
        magnetic tape drive, AXE-9
      :w, BGTE-3, AXE-5
W
      w, AXE-5
      W, AXE-5
      "Walk-through" (radiosity), SBRR-7
      warning messages, SSEC-7
      "Washers", SBRR-4
      wborder(1), W9KD-4
      wborder(1) options
        changing the label (-1), W9KD-4
        normal border (-n), W9KD-4
        null border (-T), W9KD-4
        setting foreground and background colors (-c), W9KD-4
        thin border (-t), W9KD-4
      wborder(1), syntax, W9KD-4
      wc command, BGUX-6, BGUS-5
      WCHARADV macro, NLS-4
      WCHAR macro, NLS-4
      wconsole, AXE-6
      wconsole window, W9KD-3
```

```
wcreate(1), W9KD-4
wcreate(1) options
  concealing the window (-o), W9KD-4
  making the window iconic (-i), W9KD-4
  non-retained raster (-n), W9KD-4
  selecting the window on create (-k), W9KD-4
  specifying location (-1), W9KD-4
  specifying size (-s), W9KD-4
  specifying window type (-w), W9KD-4
  thin border (-t), W9KD-4
  verbose mode (-v), W9KD-4
  window_spec, W9KD-4
wcreate(1), syntax, W9KD-4
wdestroy(1), W9KD-4
wdestroy(1) options
  destroy dead window on next create (-d), W9KD-4
  destroy on close of device interface (-a), W9KD-4
  turn off autodestroy (-n), W9KD-4
wdestroy(1), syntax, W9KD-4
wdestroy(1), syntax for setting autodestroy attributes, W9KD-
    4
wdisp(1), W9KD-4
wdisp(1), changing a window's representation, W9KD-4
wdisp(1) options
  bringing a window to the top (-t), W9KD-4
  changing from icon to normal (-n), W9KD-4
  changing from normal to icon (-i), W9KD-4
  concealing a window (-o), W9KD-4
  placing a window on bottom (-b), W9KD-4
  shuffling the bottom window up (-u), W9KD-4
  shuffling the top window down (-d), W9KD-4
wdisp(1), shuffling windows, W9KD-4
wdisp(1), syntax for changing representation, W9KD-4
weeks, display, NLS-2
wfont(1), W9KD-4
wfont(1) options
  activate a new base font (not -a or -r), W9KD-4
  activating new alternate font (-a), W9KD-4
  repaint alternate font characters with new (-ar), W9KD-4
  repaint base font characters in new base (-r), W9KD-4
  replace all fonts with new base (-f), W9KD-4
```

```
replace base and alternate fonts (-F), W9KD-4
  return to default base and alternate, W9KD-4
wfont(1), syntaxes, W9KD-4
wgetrasterecho(3W), relation to window process, W9KD-A
what to read, AXE-1
who, SSEC-8
whoami command, BGUX-2, BGUX-6, BGUS-4
who command, BGUX-6, BGUS-5
wide-characters, conversion with multi-byte, NLS-4
wide-characters, programming example, NLS-4
wide-characters, programming with, NLS-4
Widgets, ICXW-B
width of font, FAFM-3
wildcard characters (?, *), BGUX-4
window, BGXW-2
  active, BGXW-2
  applications, AXE-6
  border area, AXE-6
  clear area, AXE-6
  command list, AXE-6
  creation, AXE-6
  definition, AXE-6, AXE-Glossary
  destroy, AXE-6
  dumb, AXE-6
  elevators, AXE-6
  entering, AXE-6
  execution, AXE-3
  graphics tablet, AXE-6
  icon, AXE-6
  interface, AXE-6
  keyboard, AXE-6
  keyboard commands, AXE-6
  leave, AXE-6
  mouse, AXE-6
  moving, AXE-6
  name, AXE-6
  operations, AXE-6
  overview, AXE-6
  pause, AXE-6
  placement, AXE-6
  pointer, AXE-6
```

pop-up menu, AXE-6 repainting, AXE-6 root, BGXW-2 save option, AXE-6 scrolling, AXE-6 selected, AXE-6 selecting, AXE-6 size, AXE-6 smart, AXE-6 stack, AXE-6 type, AXE-6 user area, AXE-6 vi, AXE-5 why use?, AXE-1, AXE-6 windows version of PAM, AXE-3 Window -dumb program, SBPX-Glossary Focus, SBPX-3 Manager, SBPX-2 Manager (hpwm), SBPX-4 -smart program, SBPX-Glossary System, SBPX-Glossary System pointer device, SBPX-Glossary window appearance, UXW-6 window attributes, listing, W9KD-4 window attributes, listing via wlist(1), W9KD-4 window-based programs, UXW-2 window border, controlling via wborder(1), W9KD-4 window, destroying via pop-up menu, W9KD-3 window display stack, W9KD-4 window format, W9KD-2 window frames, UXW-3. See also frames window, general description, W9KD-2 window group, W9KD-4 window information area of shared memory, W9KD-A window, interactively changing an icon to a, W9KD-3 window label, W9KD-4 window label, changing via wborder(1), W9KD-4 window label, font used for, W9KD-5 window label maximum length, W9KD-4 Window Library, linking with programs, FAFM-4

```
window limitations. W9KD-A
window limititations imposed by open files limit, W9KD-A
window location, W9KD-4
window location, specifying on create, W9KD-4
window management clients, UXW-4, UXW-6
window manager, UXW-2-3, UXW-5-6, W9KD-4
  modifying, BGXW-5
window manager data swap space requirements, W9KD-A
window manager, determining if it is running, W9KD-4
window manager, effect of wmstop(1) on, W9KD-4
window manager functions. See functions
window manager, locking into memory, W9KD-5
window manager real-time priority, W9KD-5
window memory requirements, effect on swap space, W9KD-A
window menu, BGXW-2, UXW-2, UXW-6
  button, UXW-3
 changing, UXW-6
  displaying, UXW-3
  icon box, UXW-6
  of icons, UXW-6
  resize window, UXW-3
 selecting from, UXW-3
 selections, UXW-3
window, moving via the move control box, W9KD-3
window, moving via the pop-up menu, W9KD-3
window-naive (dumb) programs, UXW-9
window name, default, W9KD-3
window name, displaying via wlist(1), W9KD-4
window parts, W9KD-2
window process, definition, W9KD-A
window process usage, determining via ps(1), W9KD-A
window resource files, ICXW-3
windows, UXW-1
 active, UXW-2
 capturing, UXW-8
 changing sizes, BGXW-2
 changing to icons, BGXW-2, UXW-2
  closing, UXW-3
  color control, BGXW-3
 control, UXW-6
  customizing, BGXW-D
```

decoration, UXW-6 hpterm, UXW-3 login, UXW-4 managing, UXW-6 moving, BGXW-2, UXW-3 operations control, BGXW-2 placement, UXW-6 raising, UXW-3 removing, UXW-3 resizing, UXW-3 Restoring from icons, BGXW-2 root window menu, BGXW-2 setting colors, UXW-4 size, UXW-6 transparent, UXW-9 without a menu, BGXW-2 without frames, UXW-6 Windows/9000, UXW-3, ICXW-2 windows, advantages of using, W9KD-2 window selection, W9KD-2 window shell, W9KD-3 window size, W9KD-4 window size, changing via size control box, W9KD-3 window size, changing via wsize(1), W9KD-4 window size, default, W9KD-4 window size, maximum, W9KD-4 window size, minimum, W9KD-4 window size, realtion to scroll buffer size, W9KD-4 window size, relation to raster size, W9KD-4 window size, specifying on create, W9KD-4 window-smart programs, UXW-2, UXW-4, UXW-9 windows, maximum number of, W9KD-3 window special file directory, W9KD-5 window special files, W9KD-4 windows, rationale for using, W9KD-2 window structure, W9KD-2 windows, using interactively, W9KD-3 window system, UXW-1, UXW-3 controlling, UXW-2 window system architecture, W9KD-4 window system device files, W9KD-5

```
window system environment variables, general overview, W9KD-
window system, exiting, W9KD-3
window system, exiting the, W9KD-4
window system file usage, W9KD-A
window system process usage, W9KD-A
window system pty usage, W9KD-A
window system special files, W9KD-5
window system special files directory, W9KD-5
window system, starting, W9KD-3
window system, starting the, W9KD-4
window system swap space requirements, W9KD-A
window titles, UXW-4
window type device interface, W9KD-4
window type device interface, displaying path name of on create,
    W9KD-4
window type device interface, displaying the name of the,
    W9KD-4
window type, graphics, W9KD-2
window type, see_thru, W9KD-B
window type, see_thru, W9KD-2
window types, general description, W9KD-2
window type, specifying on create, W9KD-4
window type, terminal, W9KD-2
WIN_RUN file set, AXE-6
wlist(1), W9KD-4
wlist(1), description of report columns, W9KD-4
wlist(1) options
  display window path name only (no options), W9KD-4
  list brief font information (-f), W9KD-4
  list extended font information (-f1), W9KD-4
  listing full window attributes (-1), W9KD-4
wlist(1), sample report, W9KD-4
wlist(1), syntax, W9KD-4
wm, W9KD-4
WMALTFONT, W9KD-5
WMBASEFONT, FAFM-2, W9KD-5
WMBDRBGCLR, W9KD-5
WMBDRFGCLR, W9KD-5
WMCONFIG, W9KD-5
WMCONFIG, default value, W9KD-5
```

WMDESKBGCLR, W9KD-5 WMDESKFGCLR, W9KD-5 WMDESKPTRN, W9KD-5 WMDESKPTRN, setting, W9KD-5 wm, determining if it is running, W9KD-4 WMDIR, W9KD-4 Environment variable, SBPX-3 WMDIR, W9KD-5 WMDIR, relation to wmready(1), W9KD-4 WMDIR, relation to wmstop(1), W9KD-4 WMDIR, setting, W9KD-5 WMDRIVER, W9KD-5 WMDRIVER, setting, W9KD-5 wm, effect of wmstop(1) on, W9KD-4 WMFONTDIR, W9KD-4 WMFONTDIR, FAFM-3, W9KD-5 WMIATIMEOUT, W9KD-5 WMIATIMEOUT, examples, W9KD-5 WMIATIMEOUT, setting, W9KD-5 WMINPUTCTLR, W9KD-5 WMINPUTCTLR, setting, W9KD-5 WMIUICONFIG, W9KD-2, W9KD-5 WMIUICONFIG, bit definition, W9KD-5 WMIUICONFIG, bit definitions, W9KD-5 WMIUICONFIG, default value, W9KD-5 WMIUICONFIG, examples, W9KD-5 WMIUICONFIG, setting, W9KD-5 WMKBD, W9KD-5 WMKBD invalid values, W9KD-5 WMKBD, setting, W9KD-5 wmkill(3W), W9KD-4 WMLOCATOR, W9KD-4 WMLOCATOR, W9KD-5 WMLOCATOR, errors, W9KD-5 WMLOCATOR, setting, W9KD-5 WMLOCSCALE, W9KD-5 WMLOCSCALE, examples, W9KD-5 WMLOCSCALE, setting, W9KD-5 WMMENUFONT, W9KD-5 WMMENUFONT, effect on swap space requirements, W9KD-A wmove(1), W9KD-4

```
wmove(1) options
  moving an icon (-1), W9KD-4
  specifying location (-1), W9KD-4
wmove(1), syntax, W9KD-4
WMPTYCACHECNT, W9KD-5
WMPTYCNT, W9KD-5, W9KD-A
WMPTYMDIR, W9KD-5, W9KD-A
WMPTYNAME, W9KD-5, W9KD-A
WMPTYSDIR, W9KD-5
wmready(1), W9KD-4
wmready(1), return value, W9KD-4
wmready(1), syntax, W9KD-4
wmready(1), the -v (verbose) option, W9KD-4
WMRTPRIORITY, W9KD-5
WMRTPRIORITY, default value, W9KD-5
WMRTPRIORITY, setting, W9KD-5
WMSCRN, W9KD-5
WMSCRN, invalid values, W9KD-5
WMSCRN, setting, W9KD-5
WMSFKFONT, W9KD-5
WMSHMSPC, W9KD-5, W9KD-A
WMSHMSPC, detailed description for shared memory, W9KD-
WMSHMSPC, side-effects from changing, W9KD-A
wmstart, AXE-6
wmstart(1), W9KD-3
wmstart(1), customizing, W9KD-5
wmstart(1), default actions, W9KD-4
wmstart(1), environment variables, W9KD-5
wmstart(1), executing as a sub-process, W9KD-4
wmstart(1), executing as your login shell, W9KD-4
wmstart(1), executing from .login, W9KD-4
wmstart(1), executing from .profile, W9KD-4
wmstart(1) options
  specifying buffer size (-r), W9KD-4
  specifying raster size (-r), W9KD-4
wmstart(1), passing commands to, W9KD-4
wmstart(1), relation to wsh(1), W9KD-4
wmstart(1), replacing the currently executing process with,
    W9KD-4
wmstart(1), rules for customizing, W9KD-5
```

```
wmstart(1), syntax, W9KD-4
wmstop(1), W9KD-3
word abbreviations, BGTE-6
Worksheet
  Interface Cards, INSP-1
  Mass Storage Devices, INSP-1
  Miscellaneous Peripherals, INSP-1
  Plotters/Graphics Devices, INSP-1
  Printers, INSP-1
  Terminals & Displays, INSP-1
Worksheet Entries
  13279B Color Monitor, INSP-8
  2225A ThinkJet, Select Code 7, INSP-7
  2225A ThinkJet, Select Code 8, INSP-7
  2227A/28A, 986xx Interface, INSP-7
  2227A/28A, Built-in Interface, INSP-7
  2227B, 98624 HP-IB, Select Code 8, INSP-7
  2227B, Built-in HP-IB, Select Code 7, INSP-7
  2563/64/66B, 98624 HP-IB, Select Code 8, INSP-7
  2563/64/66B, Built-in HP-IB, Select Code 7, INSP-7
  2684, 98626/28/44 Interface, INSP-7
  2684, Built-in Interface, INSP-7
  2686A/D, 98626/28/44 Interface, INSP-7
  2686A/D, 98642 Interface, INSP-7
  2686A/D, Built-in Interface, INSP-7
  2932/34A, 98624 HP-IB, Select Code 8, INSP-7
  2932/34A, Built-in HP-IB, Select Code 7, INSP-7
  33440A, 98626/28/44 Interface, INSP-7
  33440A, 98642 Interface, INSP-7
  33440A, Built-in Interface, INSP-7
  33447A, 98626/28/44 Interface, INSP-7
  33447A, 98642 Interface, INSP-7
  33447A, Built-in Interface, INSP-7
  35723A HP Touch Bezel, INSP-10
  3630A PaintJet, 98624 HP-IB, Select Code 8, INSP-7
  3630A PaintJet, Built-in HP-IB, Select Code 7, INSP-7
  37212A 300/1200 Baud Modem, INSP-10
  45911A Graphics Tablet, INSP-10
  46020/21 Keyboards, INSP-10
  46060A/B Mouse, INSP-10
  46080A Extension Module, INSP-10
```

46081A Speaker Module, INSP-10 46082A/B Remote Extension Modules, INSP-10 46083A Rotary Control Knob, INSP-10 46084A ID Module, INSP-10 46085A Control Dials Module, INSP-10 46086A Button Box, INSP-10 46087/88A Digitizers, INSP-10 46089A Cursor, INSP-10 46094A Quadrature Port, INSP-10 600/A CD-ROM Drive, 98625 Interface, INSP-6 600/A CD-ROM Drive, Built-in HP-IB, INSP-6 650/A Optical Disk Drive, 98265A Interface, INSP-6 7907A Disk, Select Code 14, INSP-6 7907A Disk, Select Code 7, INSP-6 7911/12/14, 98625 Interface, Select Code 4, INSP-6 7911/12/14, Built-in HP-IB, Select Code 7, INSP-6 7911/12/14 Tape Controller, 98624 HP-IB, INSP-6 7911/12/14 Tape Controller, Built-in HP-IB, INSP-6 7933/35 Disk, 98625 Interface, INSP-6 7933/35 Disk, Built-in HP-IB, INSP-6 7936/37H Disk, 98625 Interface, INSP-6 7941/42/45/46 Disk/Tape, 98625 Interface, INSP-6 7941/42/45/46 Disk/Tape, Built-in HP-IB, INSP-6 7957/58/59B Disk Drive, 98625 Interface, INSP-6 7957/58/59B Disk Drive, Built-in HP-IB, INSP-6 7957/58/59S SCSI Drive, 98265A Interface, INSP-6 7957A/7958A Disk, 98625 Interface, INSP-6 7957A/7958A Disk, Built-in HP-IB, INSP-6 7961/62/63B Disk Drive, 98625 Interface, INSP-6 7961/62/63B Disk Drive, Built-in HP-IB, INSP-6 7974A Tape Drive, 98625 Interface, INSP-6 7974A Tape Drive, Built-in HP-IB, INSP-6 7978A Tape Drive, 98625 Interface, INSP-6 7978A Tape Drive, Built-in HP-IB, INSP-6 7979/80A Tape Drive, 98625 Interface, INSP-6 7979/80A Tape Drive, Built-in HP-IB, INSP-6 7980XC Tape Drive, 98625 Interface, INSP-6 7980XC Tape Drive, Built-in HP-IB, INSP-6 9111A, HP-IB, Select Code 7, INSP-8 9111A, HP-IB, Select Code 8, INSP-8 9121/22 Disk Drive, Built-in HP-IB, INSP-6

```
9121/22 Flexible Drive, 98624 Interface, INSP-6
 9125S/27A Flexible Drive, 98624 Interface, INSP-6
 9125S/27A Flexible Drive, Built-in HP-IB, INSP-6
 9133/34 Disk Drive, 98624 Interface, INSP-6
 9133/34 Disk Drive, 98625 Interface, INSP-6
 9133/34 Disk Drive, Built-in HP-IB, INSP-6
 9144A Tape Drive, 98624 Interface, INSP-6
 9144A Tape Drive, Built-in HP-IB, INSP-6
 9153/54 Disk Drive, 98624 HP-IB, Select Code 7, INSP-6
 9153/54 Disk Drive, 98624 HP-IB, Select Code 8, INSP-6
 9153/54 Disk Drive, 98625 Interface, INSP-6
 92205A/C Hayes Smartmodem 1200, INSP-10
  92916A Bar Code Reader, INSP-10
  98287A, INSP-5
  98622A GPIO, Select Code 12, INSP-5
  98624A HP-IB, Select Code 8, INSP-5
  98625A Disk Interface, Select Code 14, INSP-5
  98700, External Addressing, INSP-8
  98700, Internal Addressing, INSP-8
  98720A, External Addressing, INSP-8
  98720A, Internal Addressing, INSP-8
  98730A, DIO-I, External Addressing, INSP-8
  98730A, DIO-II, INSP-8
  98730A, DIO-I, Internal Addressing, INSP-8
  9895A Disk Drive, 98624 HP-IB, INSP-6
  9895A Disk Drive, Built-in HP-IB, INSP-6
  Plotter, HP-IB, Select Code 7, INSP-8
  Plotter, HP-IB, Select Code 8, INSP-8
  Terminals, INSP-9
workstations, Series 300, UXW-2
worms, SSEC-6
:wq, BGTE-2-3, BGTE-6
wraparound, AXE-5
wrapmargin option, BGTE-3, BGTE-6
write, SSEC-8
Write-enable mask, SBPX-4
write_enable routine, SBRR-5
write permission, SAC-8
write permission for directories, BGUX-4, BGUX-8
write permission for files, BGUX-3, BGUX-8
write permissions, AXE-3
```

write protection, SAC-10 writing characters with font manager, FAFM-3 writing fast alpha characters, FAFM-2 writing fast alpha character strings, FAFM-2 writing font manager characters, FAFM-3 writing standard error, BGUX-6 writing standard input, BGUX-6 writing standard output, BGUX-6 wselect(1), W9KD-4 wselect(1) options placing the window on bottom (-b), W9KD-4 wselect(1), syntax, W9KD-4 wsetrasterecho(3W), relation to window process, W9KD-A wsh(1), W9KD-4 wsh(1) options destroying on device interface close (-a), W9KD-4 destroying on next window create (-d), W9KD-4 login shell in a window (-g), W9KD-4 passing a command to the new window (-c), W9KD-4 start a shell in a dead window (-e), W9KD-4 wsh(1) options in common with wcreate(1), W9KD-4 wsh(1), relation to wmstart(1), W9KD-4 wsh(1), syntax, W9KD-4 wsh(1), syntax for attaching a shell to a dead window, W9KD-4 wsize(1), W9KD-4 wsize(1), syntax, W9KD-4 wsize(1), window size (-s) option, W9KD-4 wtmp, SAT-2

X x, AXE-5
X0devices, ICXW-2
X0devices, UXW-3
X0.hosts, ICXW-3
X0.hosts, UXW-4
X0pointerkeys, ICXW-2
X0screens, ICXW-2
X0screens, UXW-3, UXW-7
X0screens file, SBPX-3
X10, ICXW-C, SBPX-1
X11
automatically starting, BGXW-6

client options, BGXW-4 configuration, SAT-2, AXE-9 control, BGXW-4 Cursor, SBPX-Glossary Graphics Architecture, SBPX-2 quitting, BGXW-2 Revision A.00, SBPX-1 Revision A.01, SBPX-1 Server operating modes, SBPX-4 starting, BGXW-2 X11_BLD, ICXW-2, ICXW-B X11BLDAUX, ICXW-2, ICXW-B X11 clients. See clients x11error.log, ICXW-4 X11_FONTA, ICXW-2, ICXW-B X11_FONTB, ICXW-2, ICXW-B X11_FONTC, ICXW-2, ICXW-B X11MANMIN, ICXW-2, ICXW-B X11MANSUP, ICXW-2, ICXW-B X11_MIN, ICXW-2, ICXW-B X11 non-clients. See non-clients X11_RUN, ICXW-2, ICXW-B X11_SERV, ICXW-2, ICXW-B .x11start, BGXW-3, BGXW-B, ICXW-3 x11start, BGXW-2, ICXW-3, ICXW-B x11start, UXW-3 problems, BGXW-2 .x11start, UXW-5 X11, starting at login, UXW-5 X11 Windows Backing store, SBPX-3 Double-buffering, SBPX-3 Operating modes, SBPX-3 Retained raster, SBPX-3 X.25, SAC-11 X.400, SAC-11 X Client/Server Architecture, SBPX-2 xclock, ICXW-3 xclock, UXW-4 xcolormap, ICXW-2

.Xdefaults, ICXW-2 customizing, BGXW-3 .Xdefaults, UXW-4 .XDefaults, BGXW-3 X*devicde, ICXW-3 X*devices, ICXW-3 X*devices, UXW-7 XDR, SAC-11 XENVIRONMENT, ICXW-3 X environment, customizing, UXW-5 xfd, UXW-4 xhost, ICXW-4 xhost, UXW-4 X*.hosts, ICXW-3 xinit, UXW-3 xinitcolormap, UXW-4 Xlib Graphics, SBPX-1 Library, SBPX-2 xload, UXW-4 xmodmap, ICXW-3 xmodmap, UXW-4, UXW-7 X*pointerkeys, ICXW-3 X*pointerkeys, UXW-7 xpr, UXW-4, UXW-8 X Ray Tracing X Window System interaction, SBRR-5 xrdb, ICXW-3 xrdb, UXW-4, UXW-7 xrefresh, UXW-4, UXW-6 Xrlib, ICXW-B X*screens, ICXW-3 X*screens, UXW-7, UXW-9 xseethru, UXW-4, UXW-9 X server, UXW-2. See also server Xserver, UXW-4 xset, ICXW-3 xset, UXW-4, UXW-7 xsetroot, ICXW-3 xsetroot, UXW-4-5, UXW-9 X startup script, UXW-3

xterm, UXW-2, UXW-4, SSEC-9 xwcreate, UXW-4, UXW-9 xwcreate routine (X11 Windows), SBPX-3 xwd, UXW-4, UXW-8 xwd2sb, UXW-4, UXW-9 xwdestroy, UXW-4, UXW-9 X window system, UXW-3 X Window System, SBPX-Glossary Architecture, SBPX-2 basics, UXW-3 beginners guides, UXW-1 common features, UXW-2 configuring, UXW-7 description, UXW-1 fonts, UXW-4 programming, UXW-1 reference books, UXW-1 start problems, UXW-3 X Window System, and item buffering, SBRR-5 xwininfo, UXW-4, UXW-6 xwud, UXW-4, UXW-8

- Y Y, AXE-5 yank, AXE-5, AXE-Glossary yank command, BGTE-4 yellow pages, SAC-11 yy, AXE-5
- Z z buffer, SBPX-4 zz, AXE-5



HP Part Number 98594-90090

Printed in U.S.A. E0989



98594 - 90690 For HP Internal Use Only